Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 153 No. 6 February 9, 1948

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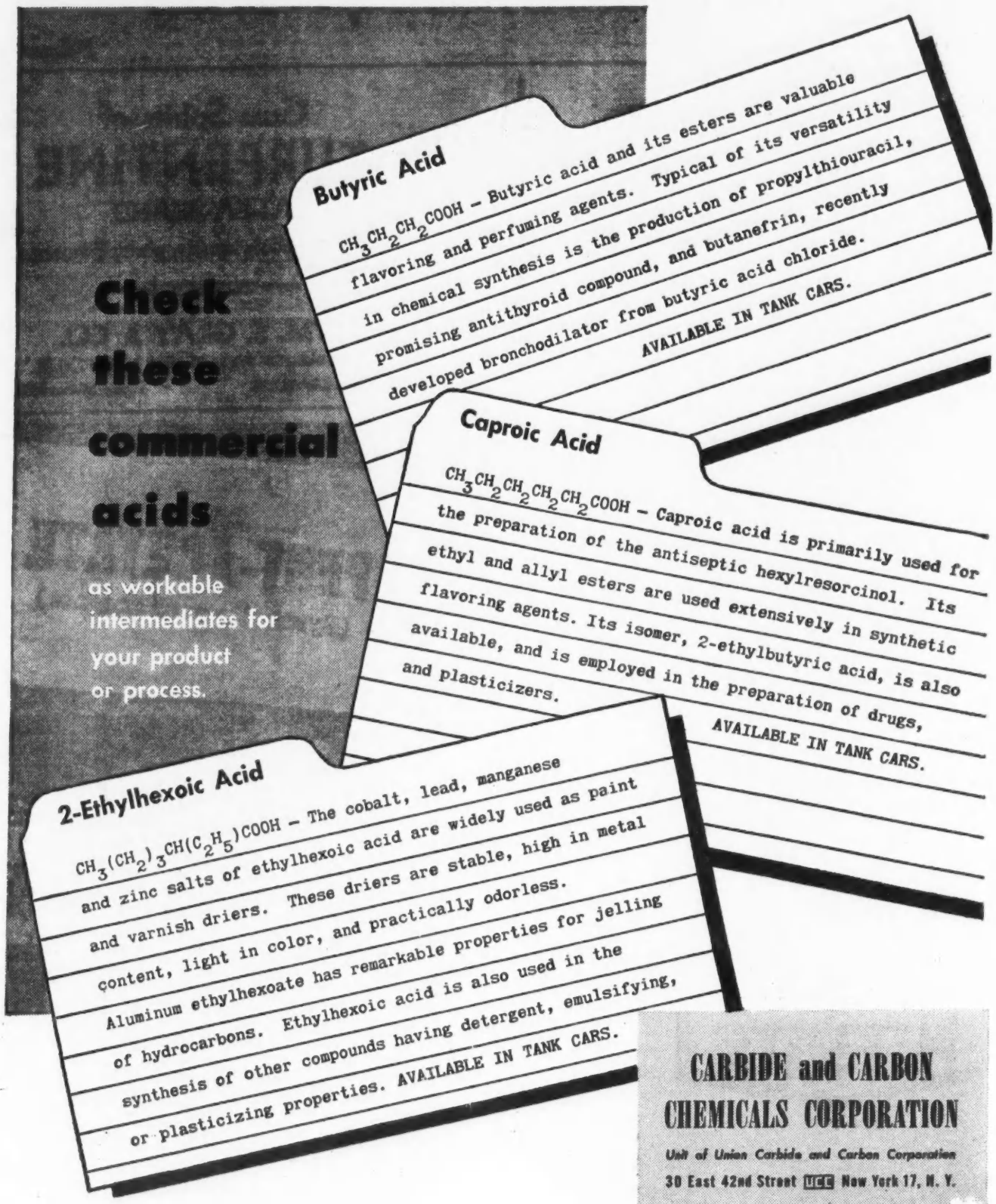
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Oil, Paint and Drug Reporter

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Nitrogen Materials Output Seen Rising

OPD Washington Bureau

A sharp trend away from the production of ammonium nitrate in favor of increased output of nitrogen solutions is noted in the figures of nitrogen production for the first six months of the 1947-48 fertilizer year prepared by the Office of Materials Distribution of the Department of Commerce.

For the first and second quarters of the year, production of ammonium nitrate was 13,293 short tons below the output of same period of the previous year, while production of solutions was up 41,040 tons. Projecting the trend into the full year 1947-48, it is estimated that ammonium nitrate production will equal about 133,576

—*Continued on page 44*

Nitrogen Export Control Continuance Advised

Export priority powers over nitrogenous fertilizers, contained in the second decontrol act, which are due to expire February 29, must be continued as a necessary adjunct to American foreign policy, Secretary of Commerce W. Averell Harriman advised Congress last week in his second quarterly report under the act.

The secretary said that the United States is committed to export 61,000 short tons of nitrogen in the 1947-48 year, in return for 187,000 tons to be imported under allocations of the International Emergency Food Committee. Through the end of January 41,000 tons had been exported which might have been impossible without the use of the export priorities assistance.

Although imports will amount to about

—*Continued on page 41*

Fats and Oils Quotas Of IEFC Approved

OPD Washington Bureau

The Department of Agriculture has approved United States tentative import and export allocations of fats and oils which have been proposed by the International Emergency Food Committee for the calendar year 1948. The United States export allocations amount to 670,200,000 pounds, oil equivalent, and import allocations total 928,000,000 pounds, oil equivalent.

While the allocations are stated in the form of fats and oils, any allocations of oilseeds which are made in 1948 will count toward meeting the IEFC allocations. It was also pointed out by the department that fats and oils exported in 1948 against 1947 United States export allocations will count toward meeting the tentative 1948 IEFC export allocations.

Penicillin Rules Amended by FDA

Regulations governing the certification of penicillin were amended last week by the Food and Drug Administration to provide for the marketing of five new penicillin products. They are penicillin with vasconstrictor, aluminum penicillin, aluminum penicillin in oil, aluminum penicillin tablets, and procaine penicillin. The agency also amended the regulations to permit the packaging of penicillin in containers of more than 20,000 units. The minimum of 10,000 units, however, was left unchanged.

Price Trend Dips Sharply

Price sentiments in the markets for chemicals, oils, and drugs continued unbalanced last week, and the predominance of influences was more than ever on the downside. Oils and fats continued to lay the most weight on the balance, and price cuts on such materials were almost universal. Pharmaceutical chemicals and egg derivatives increased the pressure. There were upward movements in heavy chemicals, coaltar chemicals, botanical drugs, and essential oils. These added 2.2 points to the aggregate, but the net effect was a loss of 33.1 points, which depressed the general average 2.4 points and put it 4.0 points below the corresponding 1947 level.

Business was relatively quiet, chiefly because of the handicaps laid on consuming industries by the weather. Producers were easing up in some chemical lines, a tendency to keep inventories down being noticeable in various lines. There is uncertainty as to the rate of recovery that will follow the lifting of the load of bad weather from transportation and productive operation. The increasing costliness of freight shipping is also causing some worry. Some of the eagerness has gone out of export markets for heavy chemicals, the inference being that those markets expect to get the stuff "for free" under ERP.

The price breaks in oils and fats comprised eight foreign and domestic vegetable oils—from castor to tung—and seven animal and fish products. Copra, castor beans, and flaxseed also were cheaper, along with three vegetable oilmeals, and a sitdown by feeders turned the price trend of dried blood and tankage also downward. The sentiment in spot markets appeared to be parallel with that in the commodity exchanges. Guesses as to the reason were many.

Increasing production costs in materials and power are becoming too heavy for chemical manufacturers to bear, and prices are going up. The trend is not broad; strong efforts are being applied for price-stability; but there will be breaks through at places Some copper and nickel salts reflected that condition last week; zinc salts are expected to be advanced shortly. Three more major coaltar chemicals were given higher quotations. So were a number of metallic oleates. Some tartrates were lowered. There were reductions in Midwest butyl alcohol and acetate, in menthol, DDT, and quicksilver.

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

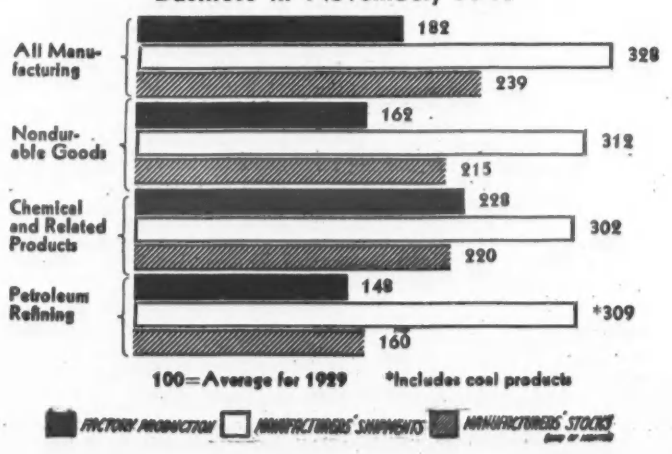
Feb. 6, 1948	Jan. 30, 1948	Feb. 6, 1947
147.6	150.0	151.6

The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1948	1947	1946	1945	1941
January	150.4	150.9	135.3	133.0	107.8
The year		147.6	138.8	133.8	123.2

Business in November, 1947



Chemicals Export Quotas for '48 First Quarter Reported by OIT

OPD Washington Bureau

Export quotas for the first quarter of 1948 of a number of chemicals and allied products were announced February 3 by the Office of International Trade of the Department of Commerce. The quotas include "all presently approved requirements of various special projects abroad of vital interest to the United States," the agency said in announcing the quotas.

The announcement did not contain the quota for soda ash, but it is understood that this was to be issued within a few days and probably will be close to the 62,000-ton quota of the fourth quarter of 1947. The caustic soda quota for the first quarter is 72,000 tons, which is the same as that for the last quarter of 1947.

The quotas established by OIT for other chemicals and allied products are as follows:—

Antimony oxides (tri-, tetra-, penta-), lbs.	1,500,000
Antimony sulphide, lbs.	30,000
Benzol, gals.	1,560,000
Bismuth sub-carbonate, sub-gallate, sub-nitrate, sub-salicylate and sodium bismuthate, lbs.	[4]120,000
Chromium salts and compounds (except chemical pigments), lbs.	250,000
Cinchona bark, lbs.	6,000
Coaltar, crude, gals.	[2]10,700
refined, gals.	[2].....
Creosote or dead oil, gals.	600,000
Cresols and cresylic acid, lbs.	900,000
synthetic para cresol, lbs.	35,000
Dimethyl phthalate, lbs.	20,000
Ethylene glycol, lbs.	1,000,000
Glycerin (100% glycerin basis), and crude, lbs.	3,000,000
Insulin, units	200,000,000
Kerosene, bbls.	[1]900,000
Lauryl alcohol, lbs.	50,000
Lead acetate; antimonate; arsenite; dioxide; red lead, dry; litharge; white lead; dry dibasic lead carbonate white lead, in oil; basic sulphate of white lead; lead pigments, including blue lead and lead sulphate; chrome pigments containing 10% or more chromium, except lead-free chrome pigments; lead sublimed in oil; red lead in oil, short tons.	2,020
Lithopone and cadmium lithopone, lbs.	4,000,000
Malaria chill and fever remedies not containing quinidine	[5]860,000
Motor fuel, aviation, bbls.	[1]700,000
other motor fuel and gasoline, bbls.	[1]5,250,000
Naphthalene (including balls and flakes), lbs.	450,000
Nitrogen chemicals for industrial use, including sodium nitrate, ammonium nitrate, ammonium sulphate, urea (except synthetic resins and fertilizers), urea ammonium salts, lbs.	2,560,000
Oil, gas and distillate fuel, bbls.	[1]3,200,000
residual fuel, bbls.	[1]1,800,000
Petroleum origin blending agents or anti-knock compounds, bbls.	150,000
Phenol, lbs.	7,000,000
Phenol-formaldehyde resins, laminated (sheets, plates, rods, tubes and other unfinished forms), lbs.	800,000
not laminated	600,000
Phenolic resins in powder, flake or liquid form (scrap included), base resins, lbs.	1,500,000
coating material, lbs.	5,000,000
holding powder, lbs.	10,000,000
Potassium bichromate and chromate, lbs.	1,100,000
Potassium carbonate and mixtures, lbs.	3,000,000
Potassium chlorate and mixtures and potassium perchlorate and mixtures, lbs.	4,000,000
Potassium chloride, technical grade, lbs.	750,000
Potassium nitrate and nitrate mixtures except potassium nitrate powders, lbs.	2,000,000
Potassium sulphate, technical grade	250,000
Quinidine sulphate, ozs.	100
Quinine hydrochloride, ozs.	100,000
doses	6,100,000
Quinine salts, miscellaneous, not including hydrochloride and sulphate, ozs.	25,000
Quinine sulphate, ozs.	300,000
Sodium bichromate and chromate, lbs.	5,241,902
Sodium hydroxide or caustic soda, except in small packages, short tons	72,000
Streptomycin, grams	2,700,000
Tar acid oil, lbs.	5,000
Tin compounds, lbs.	5,000

[1] In addition, 2,470,000 barrels of petroleum products are authorized for shipment by U. S. military authorities to Greece and the occupied areas of Japan and Ryukus.

[2] Reserved for special projects.

[3] Tar acid free, licensed liberally.

[4] Bismuth content.

[5] Malaria chill and fever remedies containing quinidine are chargeable to quinidine quota based on quinidine content.

Olive Oil Output Favorable for 1947-48

OPD Washington Bureau

Preliminary estimates of edible olive oil production in the principal producing countries of the Mediterranean Basin indicate that the 1947-48 crop will be the second largest on record of the past quarter of a century, the Office of Foreign Agricultural Relations reported last week.

This year's production estimate is 1,073,700 short tons, which compares with 813,200 tons in 1946-47 and 539,200 tons in 1945-56. This is 19 percent above the 10 year (1935-45) average of 901,300 tons and 27 percent above the five year (1940-45) average of 845,000 tons.

This year's production shows considerable increases for Italy, Portugal, Greece, Syria-Lebanon, and Turkey. Modest increases were reported for France, Spain, Palestine, and Algeria. Tunisia and French Morocco output is reported the same as the previous year.

Growing conditions in all countries excepting those in North Africa were considerably better than a year earlier. Fly damage was less than normal, taking the group as a whole, though some countries reported more than a normal amount of damage. More rains would have been beneficial in nearly all countries and especially in North Africa.

The OFAR said that the export situation is the best in many years with exportable surpluses being available in good volume in the principal producing areas. Estimates of the total tonnage available for export vary from 100,000 to 160,000 short tons. However, it is very unlikely that much over half this quantity will actually be exported.

There was relatively little carry-over of high grade oil from the previous year. The heavy supply of available oil has caused a considerable decline in prices throughout most of the area. Export selling pressure is strong in view of the desire of most countries to obtain United States dollars. Some countries still require the importation of a like quantity of other oil before olive oil may be exported.

Olive Oil Placed Under Import Control

OPD Washington Bureau

Olive oil from all countries has been put under import control by the Department of Agriculture through an amendment to War Food Order 63.

Thirty-three thousand tons will be available for allocation to importers applying for licenses prior to midnight, February 14. Veterans and other "newcomers" to the industry will get 10 percent of this total and the remainder will go to importers of record.

The department also announced that existing agreements covering the exchange of soybean for olive oil will apply only to shipments of olive oil from the producing countries prior to March 1.

Licenses to import will only be valid for importation from olive oil-producing countries bordering on the Mediterranean. The licenses will be amended to permit importations from other countries on the submission of evidence satisfactory to the administrator of WFO 63 that the oil desired for importation from any other source was produced in that country.

Importers of record who desire emergency licenses in order to proceed with current transactions must file a qualifying statement and indicate whether the statement is their complete record for the base period.

Requests for import licenses, together with required affadavits showing eligibility, must be mailed to the Administrator of WFO 63, fats and oils branch, Department of Agriculture, Washington 25, D.C.

Nitrogen Needs of Industry

OPD Washington Bureau

Industrial applications of nitrogen will consume 430,000 tons in the 1947-8 fertilizer season, according to data furnished by the Synthetic Nitrogen Products Corporation, New York, to the fertilizer section of the marketing division of the Office of Domestic Commerce, Department of Commerce. The requirements of the several areas of industrial consumption were estimated as follows:—

	Tons
Aqua ammonia, including household ammonia	58,000
Cyanides	25,000
Explosives, civilian	45,000
Metal-treating	40,000
Miscellaneous uses, as nitric acid	30,000
otherwise, including use as an alkali	71,000
Nitrocellulose lacquers	10,000
Nylon	35,000
Rayon	5,000
Refrigeration	15,000
Resins	35,000
Salts, miscellaneous	30,000
Soda ash	11,000
Sulphuric acid	15,000
Urea, excluding urea used in making resins or as feed	10,000
Water-treatment	15,000

Synthetic Rubber Plants Sales Ban Recommended

OPD Washington Bureau

A declaration of government policy on synthetic rubber that virtually bars the sale or lease of the government's synthetic rubber plants to private industry was written into the Shafer bill, establishing a long range rubber program, by a subcommittee of the house Armed Services Committee last week.

The policy statement declares that national security "is by far the most important consideration" in forming government policies on synthetic rubber production, and "there are no compelling security reasons" why the plants should be leased or sold. It adds that the government will retain plants to assure enough production for security.

The Shafer bill would require the government to keep plants with a total annual capacity of 675,000 tons in operation or in standby condition. They would produce at least 225,000 tons annually, which rubber product manufacturers would have to use.

FTC Appropriation Set at $3,408,035

OPD Washington Bureau

Appropriations for the Federal Trade Commission for the fiscal year 1949 amounting to $3,408,035 were approved by the house last week. This was a reduction of $566,965 from the amount recommended by the Bureau of the Budget, but $452,815 more than was appropriated last year.

In granting the commission $3,361,510 to cover expenses exclusive of printing and binding, the house provided an increase of $473,390 over the current year's appropriations for use primarily in connection with anti-monopoly work, with the understanding that $50,000 of the increase will be used in connection with trade practice conferences. This will provide the commission with $1,364,481 for use in anti-monopoly work.

Atabrine Ampuls, Tablets Offered for Sale by WAA

OPD Washington Bureau

The War Assets Administration announced last week the proposed sale at fixed prices of about $1,750,000 of atabrine ampuls and tablets. The ampuls will be offered to exporters and wholesalers at 30c. per box, to large retailers at 34c. and to small retailers at 36c. The tablets will be sold to exporters and wholesalers at 10c. per bottle, to large retailers at 11⅝c. and to small retailers at 12c.

The ampuls, each containing 0.2 grams of atabrine in powder form, are packed five to a box with a 50 cc. bottle of sterile water. The tablets contain 1½ grains of atabrine each and are packed 100 to a bottle. Orders may be sent to any WAA customer service center to be received not later than March 2.

Synthetic Rubber Scrap Importation Bill Approved

OPD Washington Bureau

Then senate last week passed H. R. 2029 to provide for the free importation of synthetic rubber scrap. Because of a minor amendment, the measure had to be returned to the house before transmittal to the White House for the President's signature. Most of the synthetic scrap comes from Canada. Under the recent interpretation of the tariff act, it is classed as a waste product subject to a duty of 7½ percent ad valorem. The bill takes synthetic rubber scrap out of the miscellaneous waste category and puts it in the same category with india-rubber scrap.

Synthetic Fuels Bill Approved by Senate

OPD Washington Bureau

The senate last week passed the O'Mahoney bill, S. 134, extending the authority of the Bureau of Mines to conduct experiments in the manufacture of synthetic fuels for three years, and increasing the funds to be available for this work to $60,000,000. A similar bill reported in the house is scheduled to be taken up for passage this week.

Pacific Western Oil Corp. Names Getty President

Pacific Western Oil Corporation has elected J. Paul Getty, of Los Angeles, president to succeed D. T. Staples, who has been named executive vice-president.

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Chemical Rot-Proofing Process Developed by U.S.

OPD Washington Bureau

The best means yet discovered for protecting cotton fabric and yarn from mildew and other forms of rot is to convert part of the fiber chemically to cellulose acetate, similar to acetate rayon, the Department of Agriculture's Southern Regional Research Laboratory reported February 2. Tests conducted at the laboratory have shown that this treament gives the most resistance against rotting organisms, causes no discoloration, imparts no odor, and does not make cotton sticky or poisonous as do some other rot-proofing treatments.

Elk Hills Oil Plan Time Limit Feb. 17

OPD Washington Bureau

Secretary of the Interior J. A. Krug has extended until February 17 the time limit set for the filing of objections or supporting briefs in connection with the proposed withdrawal of public land and the enlargement of the Elk Hills naval oil reserve in Kern County, Cal. Briefs or other papers should be sent to C. Girard Davidson, assistant secretary, in Washington, D. C.

Ore & Chemical Corporation Elects Schreiber President

Ore & Chemical Corporation, New York, has elected R. Schreiber president, to succeed H. Bernstorff, who resigned the presidency to become chairman of the board. Mr. Schreiber was formerly vice-president of the company.

John Wesley Hyatt Award Nominations Being Received

The committee for the John Wesley Hyatt Award for the advancement of plastics is now receiving nominations for the seventh annual award of the medal and $1,000 prize. Any person, whether molder, tool-maker, laboratory technician, executive, or engaged in any other capacity, is eligible, or may submit one or more entries. Entries should be addressed to William T. Cruse, secretary of the John Wesley Hyatt Award Committee, 295 Madison avenue, New York 17.

American Cyanamid Acquires S.T.Dahl Company

The American Cyanamid Company, New York, has acquired the S. T. Dahl Company, Los Angeles, and has appointed Sheldon T. Dahl West Coast sales manager for its industrial chemicals and plastics divisions. The California company is located at 2472-2474 East Eighth street, Los Angeles 21.

Chemical Firms Merger Planned in Holland

OPD Washington Bureau

A project for the complete merger of the Chemical Works of Utrecht, and the Amsterdam Super-Phosphate works, both Holland, is reported by Aneta News Agency. The two companies have been working for joint account since 1918.

The merger will be effected by the Utrecht company taking over the assets and liabilities of the Amsterdam company against its ordinary shares. The Amsterdam firm thus becomes a holding company of Utrecht shares.

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Market Reports

Coconut oil, under heavy pressure in the commodity market, declined 1c. per pound late in the week. Closing quotations for crude were listed at 19c. and 18c. per pound for Atlantic and Pacific Coast ports, respectively.

Corn oil was easier on Friday and was offered at 23c. per pound, tanks, f.o.b. mills, with bids at 21c.

Cottonseed oil was off 1c. per pound on Friday, as crude closed at 21c. per pound, tanks, f.o.b. mills, with the market entirely nominal.

Peanut oil was off 1c. to 2c. per pound on Friday, as crude ended the week at 21c. to 22c., tanks, works.

Soybean oil declined further late in the week and light sales were made at 16c., tankcars, f.o.b. mills, for February shipment.

Surplus Materials and Equipment Offered

Chemicals and related materials currently offered as surplus by the War Assets Administration on closed bids to the dates given or at fixed prices as stated, include the following items:—

Insect repellent, containing dimethyl phthalate, 2,421,216 two-ounce bottles, 2 cents per bottle, Seattle, SEO-19-42875.

Pentacrythritol, approx. 500,000 pounds, 25 cents per pound, New York, NYO-71-7126.

Operating equipment and supplies currently offered by WAA in fixed-price and open-bid sales include the following:—

Filters, two, with 5-h.p. motors, Williamsport, Pa., PHY-OL-705, February 16.

Water distilling units, 33, gasoline engine driven, New York, NYO-67-7081, February 23.

Dr. Seaborg to Receive 1948 Ericsson Medal

The American Society of Swedish Engineers has selected Dr. Glenn T. Seaborg, of the University of Southern California, to receive its 1948 John Ericsson Gold Medal. The selection was made in recognition of Dr. Seaborg's outstanding research in nuclear chemistry, according to Arvid Lundquist, president of the society. Presentation of the medal will be made on February 11 at the organization's headquarters in New York.

Goodrich Chemical Plans $3,000,000 Chemical Plant

B. F. Goodrich Chemical Company, a division of B. F. Goodrich Company, Cleveland, is planning the construction of a $3,000,000 chemical plant at Avon Lake, Ohio. The output of the new plant will be used to supplement the company's production of rubber, polyvinyl resins and organic chemical products.

Murray Oil Products Co. Renames Chemical Division

Murray Oil Products Company, Philadelphia, has incorporated and changed the name of its chemical division. The division, formerly known as the Merchants Chemical Company, is now designated the Merchant Products Corporation and will continue to operate with the same officers, personnel and location.

Pentaerythritol Offered

War Assets Administration is offering 538,300 pounds of pentaerythritol at a fixed price of 25 cents per pound. Manufactured by Celanese Corporation of America, it is in double paper bags packed in barrels, ranging between 225 and 250 pounds net weight. The offer, good until February 16, is being made through WAA customer service center, 125 First street, Newark, N. J.

Foreign Market Lists

Lists of foreign outlets for chemicals and related materials and consumers goods recently compiled by the Commercial Intelligence Division of the United States Department of Commerce, include the following, which are available from the division at $1 for a list for any one country:—

Ceramic manufacturers, Venezuela.
Fertilizer importers and dealers, Panama.
Hospitals, Netherlands Indies.
Ice plants, Jamaica.
Medicinal and toilet preparation importers and dealers, Palestine; Panama.
Naval stores importers, dealers, producers, exporters, Ecuador; Jamaica.
Photographic supply dealers and photographers, China; Netherlands; Hong Kong.
Soap manufacturers, Honduras.
Textile industry, Honduras.

Soviet Zone Chemicals Output in 1946 Listed

Operations of the chemical and allied industries in the Soviet zone of Germany were reviewed briefly last week in a report of the American Military Government, made public by the Department of the Army. The report covered only 1946, however, since current data on production in the Soviet zone was unavailable except for a few specified commodities.

Because of the presence of extensive brown coal fields and non-metallic mineral deposits, the Soviet zone has within its borders some of Germany's largest multiple-purpose chemical plants. The main center of the German optical industry is also located within the zone, at Jena. In 1936, the area of the present zone led what are now the other occupation zones in the output of glass, ceramics, optical and precision instruments, metal goods, jewelry, pulp, paper, paper products, printed matter, and textiles.

According to the report, Soviet zone chemical output lagged somewhat behind that in

—*Continued on page 40*

USI Advances Dr. Bass To Vice-President

U. S. Industrial Chemicals, Inc., New York, has elected Dr. Lawrence W. Bass a vice-president. Dr. Bass will continue as director of research and development for the company, a position which he has occupied since 1944.

During the recent war he headed a committee of the National Research Council which handled technical projects for the Quartermaster Corps and for his work in this connection was awarded a Certificate of Merit by President Truman. Directly prior to the war he was director of the New England Industrial Research Foundation.

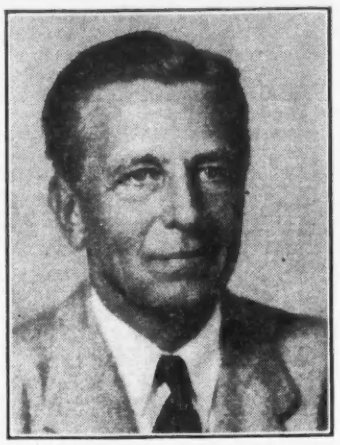
From 1929 to 1931 he was executive assistant at the Mellon Institute of Industrial Research, Pittsburgh, and was director of research of the Borden Company, New York, until 1936, when he returned to the Mellon Institute as assistant director. He had previously been a member of the scientific staff of the Rockefeller Institute for Medical Research, New York.

Foreign Sales Leads

Anyone interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Antimony, Osaka, Japan (BF-1).
Chemicals, Osaka, Japan (BF-1); Prague Czechoslovakia (BF-3).
Coaltar products, Osaka, Japan (BF-1).
Fertilizer, Osaka, Japan (BF-1).
Kaolin, Turin, Italy (BF-4).
Penicillin, Hiroshima, Japan (BF-2).
Potassium Ferrocyanide, Menin, Belgium (BF-6).
Streptomycin, Hiroshima, Japan (BF-2); Cairo, Egypt (BF-5).
Sulfadiazine, Hiroshima, Japan (BF-2).
Tanning materials, Osaka, Japan (BF-1).

Hooker Vice-President



Bjarne Klaussen has been named vice-president in charge of production for the Hooker Electrochemical Company, Niagara Falls, N. Y. Mr. Klaussen, who joined the company in 1916, has been works manager of the Niagara Falls plant since 1940 and a member of the company's board of directors since 1942.

Limestone Duty Free Import Requested in House Bill

Representative Hal Holmes, of Washington, introduced a bill, H. R. 5275, in the house last week amending the tariff act of 1930 to provide for the duty free importation of limestone to be used in the manufacture of fertilizer.

The bill would amend paragraph 1685 of the act, which now permits free entry for guano and basic slag, so as to include limestone in either crude, crushed or broken forms when imported for use in fertilizer manufacture.

Quinidine Distribution Controls Extension Proposed to Congress

OPD Washington Bureau

Secretary of Commerce W. Averell Harriman has recommended to Congress that present controls over the distribution of quinidine and cinchona bark be continued until quinidine is in adequate supply. These controls are due to expire February 29.

The secretary said, in his second report on the Second Decontrol Act, that if imports of quinidine obtained through private channels are distributed in accordance with the relative urgency of the needs of cardiac patients, and are not diverted to chill tonics and other less essential end-uses, no recommendation for authority to control such supplies, in addition to present authority over quinidine originating from government sources, will be made.

During the fourth quarter of 1947 all end-use restrictions on quinine were removed; the limited controls remaining applied only to the release of this material from government stocks to primary distributors. All quantities requested by primary distributors for redistribution were released. By the end of the year it had become apparent that total supplies in 1948 would be ample for all requirements, and quinine was completely decontrolled.

The supply position for quinidine is in striking contrast, the secretary said. Despite steady increases in the rate of allocations over the past eighteen months, only about two-fifths of the requests for quinidine could be filled in the fourth quarter of 1947. For the year 1947 as a whole the ratio was only about one-third.

Because of the continuing critical shortage of quinidine, the Department of Commerce has resurveyed the supply requirements situation. The results of this survey, covering the calendar year 1948, are shown in ounces in the following table:—

Supply—	
RFC stocks January 1, 1948	42,290
Imports*	450,000
Recovery from processed materials	48,300
Total supply	540,590
Demand—	
Exports	†
For cardiac treatment	564,000
Other (mostly chill tonics)	41,000
Demand (exclusive of inventory buildup)	605,000
Inventory buildup	90,000
Total demand	695,000
Indicated deficit	154,410

* Estimate submitted by the Trade Commission NEI; private and public imports not shown separately for the year.
† Negligible.

The estimate for imports, which account for nine-tenths of the supply, the report

—*Continued on page 57*

Du Pont Advances Harris As E.H. Hawkins Retires

E. I. du Pont de Nemours & Co., Wilmington, has appointed Thomas W. Harris jr. director of purchases, following the retirement of Ernest H. Hawkins on February 1. Mr. Harris' duties as assistant director of

Thomas W. Harris jr.

purchases have been assumed by Harold B. Garrett, and L. R. Bailey has been named to succeed Mr. Garrett as division purchasing agent in charge of the chemical division.

Mr. Hawkins joined the du Pont organ-

—*Continued on page 41*

Washington Talks It Over

The OPD Observer

The rules of the game that will cover the activities of industry advisory committees and the use to be made of them by the Department of Commerce in the program of voluntary industry agreements for allocation of scarce materials have just been set out by Secretary Harriman. In general they follow pretty closely the lines of the advisory committees of the war days set up by WPB and OPA.

Appointments to the committees are to be made by the department and not by industry itself and will be composed of the minimum number of companies necessary to represent a fair cross-section of the industry. In making the selections the department will endeavor to get a fair representation of large, medium, and small companies, geographical distribution, trade association membership and segments of industry, that is by types of products and degree of integration.

The primary function of the committees will be to furnish information, give advice, and make recommendations to the department. They will not be authorized to determine policies for the department nor will they be allowed to compel or coerce any person to enter into any agreement or comply with any agreement. Meetings will be held at the call of the department, and the discussions will be limited to those topics on the agenda prepared by the department.

After an agreement has been drawn up it will be the subject or public hearings and anyone desiring to be heard can appear if he files a written notice of his intentions in advance. The agreement will become final after it is approved by the Attorney-General and the Secretary of Commerce.

'Small Business' Defined

For years it has been the political aim of Congress and the government to extend all possible aid to small business. Millions of words have been written and spoken on the subject and many laws have been passed to this end, but never has the question been answered as to what is meant by "small business"—that is, until a few days ago.

Last year Congress addressed a resolution to President Truman urging that government agencies, in their dealings with industry, give proper recognition to small business. It should have equal representation as an entity with other groups, such as labor and agriculture, on government boards, commissions, committees, etc. The effect was to put Mr. Truman on a spot. To carry out the request he had to advise the departments what was meant by the term "small business." Here is his definition:—

"In determining whether a business is a small business for the purpose of this resolution, the appointing agency should consider the relative size and position of the business in relation to the industry, the nature of its area of operation, the size of the group supplying capital and holding ownership and control, and the independence of its management.

"As an alternative guiding principle for the appointing agency, a business may be considered a small business if it is a busi-

—*Continued on page 34*

Yes—We Need Export Controls

George A. Renard
Executive Secretary
National Association of Purchasing Agents

(Reprinted from the January 28, 1948, issue of The Bulletin of the National Association of Purchasing Agents)

How short is the average memory? Several years ago, the exports of scrap, oil, etc., proved to be an all-time high in foolishness, and should have been a lasting lesson.

Since V-J Day, we have permitted exactly the same thing to happen: uncontrolled exports have gone to destinations just as friendly to Uncle Sam as Hitler, Mussolini, and Tojo were in the not-so-distant past.

Does anyone seriously believe the export gates can be left wide open, and that, at the same time, scarce materials, food, etc., can be directed where we want them to go, under the Marshall plan or European Recovery Program?

Does any disinterested person believe we can keep hijackers out of our markets, without some export control program?

Does anyone believe that uncontrolled exports to black markets abroad have nothing to do with gray markets at home?

Does anyone doubt that our commodity and security markets have been sapped by refugees and unemployed royalty from all continents, who selfishly removed their assets, as well as their persons, from the war or postwar service of their own countries? Are foreign missions and delegations concerned about our purchasing problems?

Does anyone believe those birds—and this country is crawling with them—have any patriotic, sentimental, or commercial respect or responsibility for U.S.A. markets, price levels, or our free enterprise system?

Does anyone fail to understand that the temporary financial advantages of these foreign exchange artists can be pyramided again, if they are permitted to raid our commodity markets for sales in the short or black markets abroad?

Now, after foolishly permitting export licenses to be handled as loosely as they were when Japan and Italy stocked up with the stuff they shot at our boys, the Department of Commerce has slapped on some controls. The reaction was prompt and may be effective. Resolutions, mass meetings, etc., are demanding the gates remain wide open. So-called "foreign traders" are putting on the pressure. Whom do they represent?

No legitimate company or transaction would be barred by controls, and much of the hijacking of our markets could be! Why the silence from us, whose supplies and price levels might be protected by the proper use of export controls?

The so-called "foreign trader," for a commission, will take anything out of these markets. Should he be uncontrolled? Is the average memory that short?

Why wait until March 1 to cut off this hijacking business, Mr. Harriman? Make it February 1 and make the requirements tough and non-political.

Pennsalt Names Mitchell Assistant Vice-President

Pennsylvania Salt Manufacturing Company, Philadelphia, has appointed William F. Mitchell assistant vice-president and has named Gustave A. Nelson to succeed Mr. Mitchell as superintendent of its Wyandotte, Mich., plant. Herman J. Eichengofer and Hugh C. Land were named assistant superintendents at the plant.

Mr. Mitchell joined the company in 1936 as an engineer in the technical service division at Philadelphia. In 1939 he was transferred to the manufacturing department's central engineering division and in 1943 was appointed assistant works manager. He served in that capacity until 1945, when he was named superintendent at Wyandotte.

Mr. Nelson, who was formerly assistant superintendent at Wyandotte, has been associated with Pennsalt since 1928 and was technical foreman before becoming assistant superintendent. Mr. Eichengofer joined the company in 1932 and was production supervisor at the time of his new appointment. Mr. Land started with the company in 1946 as a maintenance and construction engineer.

Drug Products Acquires American Druggists Syndicate

The Drug Products Company, Passaic, N. J., has acquired all the assets of the American Druggists Syndicate, New York. A new American Druggists Syndicate Inc., of New Jersey has been formed as a division of the Drug Products Company. Products of the absorbed company will be made at the Drug Products Company's plant in Passaic.

Innis, Speiden Appoints Ladd Isco Works Manager

Eben C. Speiden, senior vice-president and works manager of the Isco Chemical Division of Innis, Speiden & Co., New York, has retired from active duty as works manager at Niagara Falls, N. Y. He will continue to be associated with the company management. Dr. E. T. Ladd, general superintendent and chief chemist for the division will succeed Mr. Speiden as works manager.

Import

Many important basic raw materials, chemicals, and allied products are now available for shipment from various parts of the world to the U.S.A. If you are unable to obtain what you need in the U. S., send us complete particulars as we can undoubtedly be of assistance to you in securing what you require.

Export

Few houses anywhere are so well equipped as we are for International trade in chemicals. Our 40 years of importing and exporting chemicals have made us familiar traders in world markets from Rio to Bombay, from London to Shanghai.

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BENZOIC ANHYDRIDE
BENZOTRICHLORIDE
BENZOYL CHLORIDE
BENZYL ALCOHOL, Technical
BENZYL CHLORIDE
BUTYRYL CHLORIDE
CAPRYLYL CHLORIDE
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CYCLOHEXANOL
DICHLOR ANILINE
2:5 DICHLORNITROBENZENE
HEXACHLORBENZENE C_6Cl_6
ISOPROPYL CHLORIDE
LAURYL CHLORIDE
LAURYL PYRIDINIUM CHLORIDE
METANITROBENZOYL CHLORIDE
METHYL BENZOATE
METHYL CYCLOHEXANOL
METHYL PENTACHLOR STEARATE
MONOCHLORBENZENE
MONOCHLORTOLUENE
ORTHODICHLORBENZENE
PARANITROBENZOYL CHLORIDE
PIPERIDINE
PROPIONYL CHLORIDE
SULPHUR DICHLORIDE
SULPHUR MONOCHLORIDE
SULFURYL CHLORIDE
TETRAHYDROFURFURYL OLEATE
THIONYL CHLORIDE
TRICHLORBENZENE - 1,2,4

Conditions regarding the supply of these chemicals are improving. Some that you may have had difficulty in obtaining can now be shipped promptly. We would be pleased to receive your inquiries and will give them immediate attention. Since availability of these products may change, all orders are necessarily subject to our acceptance and confirmation.

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Adhesives—Plasticizer (U.S. 2293035) in adhesive compositions containing natural or synthetic resins.

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Chemical—Plasticizer (U.S. 2293035) for natural or synthetic resins.

Dental—Plasticizer (U.S. 2293035) in resinous compositions used as dentures or ingredients of denture mixtures.

Electrical—Plasticizer (U.S. 2293035) in insulating compositions, containing natural or synthetic resins, used for covering wire and in making electrical machinery and equipment.

Glass—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used in the manufacture of nonscatterable glass and as coatings for decorating and protecting glassware.

Ink—Plasticizer (U.S. 2293035) in rotogravure, stamppad, and textile inks.

Leather—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used in the manufacture of artificial leathers and as coatings for decorating and protecting leathers and leather goods.

Metal-Fabricating—Plasticizer (U.S. 2293-035) in compositions, containing natural or synthetic resins, used as coatings for protecting and decorating metallic articles.

Miscellaneous—Plasticizer (U.S. 2293035) in coating compositions, containing natural or synthetic resins, used for protecting and decorating articles of various sorts.

Paint, Varnish, and Lacquer—Plasticizer (U.S. 2293035) in paints, varnishes, lacquers, enamels, and dopes containing natural or synthetic resins.

Paper—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used in the manufacture of coated papers and as coatings for decorating and protecting articles made of paper or pulp.

Plastics—Plasticizer (U.S. 2293035) in making laminated-fiber and molded articles, and plastic materials from or containing natural or synthetic resins.

Resins—Plasticizer (U.S. 2293035) for natural or synthetic resins.

Rubber—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used as coatings for protecting and decorating rubber goods.

Stone—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used as coatings for decorating and protecting artificial and natural stone.

Textile—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used in the manufacture of coated fabrics.

Wood—Plasticizer (U.S. 2293035) in compositions, containing natural or synthetic resins, used as protective and decorative coatings on woodwork.

Fanweed-Seed Oil

(Pennycress-Seed Oil)

Paint, Varnish, and Lacquer—Suggested for use as paint oil (claimed to be very similar to rapeseed oil; the content of oleic acid is lower, that of linoleic acid higher than in rapeseed oil).

Fluorobenzosulphonic Acid

Disinfectant—Suggested for use as disinfectant.

Insecticide and Fungicide—Suggested for use as fungicide and insecticide.

Fluorostearic Acid

Insecticide and Fungicide—Claimed as mildewproofing agent (said to be as effective as certain copper preparations).

Magnesium Ligninsulphonate

Chemical—Dispersing agent for various purposes.

Leather—Tanning agent.

Mechanical—Aid in grinding processes.

Miscellaneous—Dispersing agent in various processing industries.

Power—Agent for treating boiler water. Ingredient of boiler-water compounds.

Oak Ridge Laboratory Gets Permanent Status

David E. Lilienthal, chairman of the Atomic Energy Commission, announced last week that the atomic laboratory at Oak Ridge, Tenn., will be permanently operated as a national facility with a program of basic research.

Mr. Lilienthal said that the Clinton National Laboratory, one of the three atomic plants at Oak Ridge, will become the Oak Ridge National Laboratory on March 1 and will be operated by the Carbide & Carbon Chemicals Corporation on a contract extending through 1951.

N.Y. Naval Stores Dealers to Organize

The organizing committee for a proposed New York Naval Stores Dealers Association met recently at the Downtown Athletic club to further the plans for the formation of the association.

Charles F. Guignon, of Guignon & Green, Inc., is chairman of the committee. Other members are George Isaacs, Industrial Sales Corporation; Leonard Tyler, Baldwin Oils & Commodities Company, and Austin Wharry, G. A. Wharry & Co.

Charter members of the organization will be Baldwin Oils, Brown Oil & Chemical Company, John H. Calo Company, E. W. Colledge GSA, Inc., Guignon & Green, Industrial Sales, E. Kuhn Company, M. W. Larendon & Co., Charles L. Read & Co., and G. A. Wharry.

The purpose of the proposed association is to promote new and greater use of American naval stores, according to Mr. Guignon. Its object, he said, is "to promote the welfare of its members; to strengthen business, fraternal and social relations among its members; to remove evils and customs contrary to sound business principles and ethics, and to safeguard the interest of the public."

Mr. Guignon declared that the association "shall not be used, directly or indirectly to restrict free and lawful competition."

N.E. Chemical Club To Meet February 19

The Chemical Club of New England will hold its annual Midwinter dinner at the Somerset hotel, Boston, on February 19. Franklin King jr., E. & F. King & Co., is chairman of the entertainment committee for the dinner.

SOCMA to Meet Feb. 18

The Synthetic Organic Chemical Manufacturers Association will hold its regular monthly luncheon meeting at the Commodore hotel, New York, on February 18 at 12:30 p.m. Dr. Eric C. Kunz, second vice-president of the organization, will preside at the meeting.

Zinc Oxide Sales Head

Harry E. Outcault has been appointed manager of zinc oxide sales by the St. Joseph Lead Company, New York. Mr. Outcault has been associated with St. Joseph Lead since 1931 and has served as manager of technical service and as assistant sales manager. He was formerly associated with the New Jersey Zinc Company.

FSA to Survey Nation's Health

OPD Washington Bureau

A comprehensive study of the health needs of the nation is to be made by the Federal Security Administration at the request of President Truman. In a letter to Oscar R. Ewing, Administrator of FSA, the President said that the health of the people is of such importance to our national welfare and security that he wished to make certain that all possible steps are being taken to contribute to its improvement.

Milk Sugar Institute Elects New Officers

The Milk Sugar Institute elected H. S. Van Bomel, of Sheffield Farms Company, president at its recent meeting in New York. Other officers chosen were: vice-president, S. B. Gilpin, Avoset Company; treasurer, E. F. Miller, National Milk Sugar Company, and secretary, Robert T. Baldwin. Elected to serve on the board of directors with the three first-named officers was R. S. Bennett, the Borden Company.

Erle Billings Retires

Erle M. Billings, advisor to business and technical personnel department of Eastman Kodak Company, Rochester, N. Y., retired February 1. He had been with the company thirty years engaging in chemical research, business management and personnel administration. He will continue as secretary to the American Chemical Society's committee on professional training, a post he has held since 1937.

Radioisotopes Output Seen Aiding Research

OPD Washington Bureau

The Atomic Energy Commission, in its annual report to Congress last week, said that the continued production of radioisotopes at the Clinton National Laboratory last year has made possible a nationwide program of tracer research in medicine, agriculture, biology, metallurgy, and industrial processing. Some 200 public and private institutions are engaged in this work and have received more than 1,800 shipments of radioisotopes.

The broad fields being covered in research work through the use of these tracers was shown in a breakdown of shipments of the radioactive types as follows:—Medical therapy, 804; animal physiology, 586; chemistry, 165; physics, 151; plant physiology, seventy-eight; industrial research, sixty-five; bacteriology, thirty-seven, and metallurgy, twelve.

In addition, 209 shipments of the stable types of isotopes were made for the following research work:—Physics, 104; chemistry, fifty-seven; animal physiology, thirty-five; industrial research, seven; plant physiology, five, and bacteriology, one.

The types of radioactive tracers in greatest use are phosphorus 32, iodine 131 and carbon 14. During the year there were 585 shipments of phosphorus 32; 563 shipments of iodine 131; 155 shipments of carbon 14; eighty-one shipments of sodium 24; sixty-nine shipments of gold 198; fifty-one shipments of sulphur 35; forty-seven shipments of calcium 45; forty-six shipments of iron 55 and 59; thirty-seven shipments of potassium 42; thirty-six shipments of cobalt 60; twelve shipments of strontium 87 and 80, and 216 shipments of others.

There were also 209 shipments of stable isotopes as follows:—Ninety-one shipments of deuterium oxide (heavy water); eighty shipments of deuterium; twenty-four shipments of boron 10, and fourteen shipments of oxygen 18.

Holland to Make Own Radioisotopes

A cyclotron is being build in Amsterdam, Holland, by the Philips Company to afford that country its own supply of radioactive isotopes, according to Aneta News Agency. Dr. C. J. Bakker, director of nuclear research there, said the move will save Holland large sums of foreign exchange.

"Moreover," he said, "the United States cannot possibly supply us with all the varities of radioactive isotopes we need as they include substances which lose their radioactivity in transit."

AEC Establishes Fellowship Program

OPD Washington Bureau

The Atomic Energy Commission has established a research fellowship program in the physical sciences basic to atomic research and development. An initial allocation of $1,500,000 has been made for support of the program. The project will complement that recently announced by AEC for training qualified persons in the biological sciences and medicine as related to atomic energy.

Two groups of fellowships are proposed—one at post-doctoral level and one at predoctoral. In the first year not more than 30 fellows will be selected at the post-doctoral level, while at the other level no more than 150 will be appointed.

Research Institute Medal Presented to Games Slayter

A program of intensified research directed toward preserving the productivity of the soil and the conservation of diminishing natural resources was advocated last week by Games Slayter at a meeting of the Industrial Research Institute in Rye, N. Y. Mr. Slayter, vice-president in charge of research and development for the Owens-Corning Fiberglas Corporation, was presented with the institute's 1948 medal "in recognition of his outstanding contribution to the field of industrial research through his leadership in the development of glass fibers and their commercial application."

Consulting Chemists Meet In New York April 28

The Association of Consulting Chemists and Chemical Engineers will meet at the Sheraton hotel, New York, on April 28. The association will hold its annual meeting at the same hotel on October 26.

Association Meeting Dates

Affiliated Drug Stores, New Yorker hotel, New York, March 14-18.
American Association of Cereal Chemists, Netherlands Plaza hotel, Cincinnati, Ohio, May 23-28.
American Chemical Society, Chicago, April 19-23.
American Drug Manufacturers Association, Mount Washington hotel, Bretton Woods, N. H., June 7-10.
American Institute of Chemists, Pennsylvania hotel, New York, May 8.
American Institute of Chemical Engineers, New York, November 7-10.
American Institute of Mining and Metallurgical Engineers, Pennsylvania hotel, New York, February 15-19.
American Oil Chemists Society, Roosevelt hotel, New Orleans, La., May 4-6.
American Management Association, Packaging Exposition, Cleveland, O., April 26-30.
American Pharmaceutical Manufacturers Association, Nacional de Cuba, Havana, Cuba, April 12-14.
American Society of Hospital Pharmacists, San Francisco, August 8.
Animal Health Institute, St. Paul, Minn., April 19-20.
Associated Chain Drug Stores, New Yorker hotel, New York, March 7-11.
Association of Consulting Chemists and Chemical Engineers, Sheraton hotel, New York, April 28.
Chemical Institute of Canada, Montreal, June 7-10.
Commercial Chemical Development Association, Roosevelt hotel, New York, March 9-10.
Drug Chemical and Allied Trade Section, New York Board of Trade, Waldorf-Astoria hotel, New York, March 11.
Druggists Supply Corporation, Pennsylvania hotel, New York, March 7-12.
Federal Wholesale Druggists Association, Pennsylvania hotel, New York, March 8-10.
Greater New York Safety Council, Pennsylvania hotel, New York, April 13-15.
National Association of Corrosion Engineers, Jefferson hotel, St. Louis, Mo., April 5-8.
National Association of Purchasing Agents, Waldorf-Astoria hotel, New York, May 31-June 2.
National Confectioners Association, Waldorf-Astoria hotel, New York, June 20-25.
National Farm Chemurgic Council, Fontenelle, Omaha, Nebr., March 3-6.
National Fisheries Institute, Fairmont hotel, San Francisco, April 6-10.
Natural Gasoline Association, Texas hotel, Fort Worth, Tex., March 24-26.
National Plastics Exhibition, Grand Central Palace, New York, September 27-October 1.
National Petroleum Association, Cleveland hotel, Cleveland, Ohio, April 21-23.
National Wholesale Druggists Association, Palm Beach Biltmore hotel, Palm Beach, Fla., April 3-8.
Northeastern States Weed Control Conference, Commodore hotel, New York, February 12-13.
Proprietary Association, Claridge hotel, Atlantic City, N. J., May 24-26.
Southern Paint and Varnish Production Club, Atlanta-Biltmore hotel, Atlanta, Ga., March 11-12.
Synthetic Organic Chemical Manufacturers Association, Shawnee Inn, Shawnee, Pa., May 25-27.
Toilet Goods Association, Waldorf-Astoria hotel, New York, May 18-20.
Society of the Plastics Industry, Ambassador hotel, Atlantic City, N. J., May 20-21.

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Current Market Quotations

Chemicals and Related Materials

February 6, 1948

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4.

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A

Acacia (see Gum, arabic).
Acetaldehyde, 99%, dms., 55 gals., works..lb. 11½- .12
5 and 10 gals., works.....lb. .12 - .16
tanks, works .....lb. .09½- .10½
Acetaldol (see Aldol).
Acetamide, CP, fib. dms.....lb. .65 - .75
tech., fib. dms.....lb. .38 - .45
Acetanilide, tech., bbls., c.l.....lb. .22 - —
l.c.l. .....lb. .23 - .26
kgs. .....lb. .28 - —
USP, bbls., 2,000-lb. lots.....lb. .40 - .41
smaller lots .....lb. .41 - .42
Acetic anhydride, dms., c.l., frt. all. E.
lb. .12½- —
l.c.l., frt. alld. E.....lb. .14½- —
tanks frt. alld. E.....lb. .12 - —
Acetoacetanilide, fib., dms., works..lb. .61 - —
bbls. works.....lb. .67½- —
Acetonacetorthotoluidide, bbls., works.lb. .75 - —
fib. dms., works.....lb. .67 - —
Aceto-orthochloroacetanilide bbls., works
lb. 1.02 - —
fib. dms., works.....lb. 1.15 - —
Acetone, CP, dms., c.l., dlvd.....lb. .06½- —
l.c.l., dlvd.....lb. .10½- —
tanks, dlvd.....lb. .08 - —
Methyl (see M).
Acetonitrile, dms., c.l., works.....lb. .45 - —
l.c.l., works .....lb. .50 - —
smaller containers, works.....lb. .55 - .60
Acetophenetidin, USP, bbls., works, frt. equald..lb. 1.16 - 1.20
Acetophenone cns., dms.....lb. 1.50 - 1.55
Acetyl chloride, clys., works.....lb. .55 - .60
Acetyltributyl citrate, dms. .....lb. .43 - .51
smaller pkgs. .....lb. .54 - —
Acetyltriethyl citrate, dms.....lb. .36 - .44
smaller pkgs. .....lb. .47 - —
Acid, abietic, dms., c.l., works.....lb. .07½- —
Acetic, com'l or redist. 28%, bbls...
100 lbs. 3.78 - 4.03
60%, bbls. .....100 lbs. 7.56 - 7.81
70%, bbls.....100 lbs. 9.45 - 9.70
80%, bbls. .....100 lbs. 10.80 -11.05
glacial, synthetic, C.P., dms., works
100 lbs. 13.50 -14.00
tanks, works .....100 lbs. 7.62 - 8.00
tech., dms., c.l., works..100 lbs. 10.07 -11.00
USP, dms., works.....100 lbs. 11.30 -12.00
Acetic acid price ranges above are c.l. and l.c.l. quantities. Carboys and cases are 50c. per 100 lbs. higher.
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, bbls., makers, primary distrib., point of ship't, 100-lb. lots..lb. .56 - —
smaller lots.....lb. .61 - .64
standard, fine, cryst., gran. (30-40 mesh) powd (80 mesh), bbls., same basis..lb. .45 - .50
Freight equalized, shipment identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Aminoacetic, NF, bbls., frt. adjusted.
lb. 1.50 - 1.75
Anthranilic, resub., bbls.....lb. 2.00 - 2.30
tech., bbls.....lb. 1.00 - 1.25
Arsenous, tech. (see Arsenic, white).
USP, powd., dms., kgs.....lb. .20 - .22
Ascorbic, USP, dms., 500-kilo lots ..
kilo.24.50 - —
25-50 kilo lots.....kilo.25.00 - —
10-kilo lots.....kilo.25.35 - —
5-kilo lots.....kilo.25.70 - —
bots., kilo lots.....kilo.26.41 - —
500 gratus.....kilo.27.47 - —
Battery, clys., c.l., E. works.100 lbs. 1.00 - 1.75
l.c.l., E. works.....100 lbs. 2.05 - 2.75
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .42 - —
1,600 to 3,800 lbs.....lb. .44 - —
800 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. up.....lb. .54 - —
1,600 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .70
dms., 4,000 lbs. up.....lb. .55 - .56
1,600 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .58 - .59
Benzoxynaphthoic, bbls., works.....lb. 1.15 - 1.32
Boric, tech., 99.5%, cryst., paper bgs.,
c.l., frt. split.....ton.124.00 - —
ton lots, ex whse.....ton.144.80 - —
less than ton lots, ex whse..
ton.149.70 - —
powd., paper bgs., c.l., frt. split..ton.104.00 - —
ton lots, ex whse, N. Y. or Chi..ton.124.80 -125.00
less ton lots, same basis.ton.129.70 -130.00
bbls., c.l., frt. split.....ton.124.00 - —
ton lots, ex whse, N. Y. or Chi..ton.144.70 -145.00
less car lots, same basis.ton.149.70 -150.00
gran., bulk .....ton.95.50 - —
paper bgs., c.l., frt. split..ton.99.00 - —
ton lots, ex whse., N. Y. or Chi..ton.119.70 -120.00
less ton lots, same basis.ton.124.80 -125.00
bbls., c.l., frt. split.....ton.119.00 - —
ton lots, ex whse., N. Y. or Chi..ton.139.70 -140.00
less ton lots, same basis.ton.144.70 -145.00
USP $25 per ton higher.
Brochner's, bbls .....lb. 1.22 - 1.34
Butyric, 99%, dms., c.l., works..lb. .34 - —
l.c.l., works .....lb. .35 - —
tankcars, works .....lb. .33 - —
Cacodylic, bots.....lb. 12.00 -16.50
Camphoric, natural, dms.....lb. 8.00 - 8.50
synth., dms.....lb. 6.00 - 6.50
Caprie, tech., rct. dms.....lb. .65 Nom.
Caprylic, 99%, dms.....lb. .65 - .75
Castor oil, split, dms.....lb. 36½- .37¼
Chlorosulphonic, dms., c.l., works..lb. 06½- —
l.c.l., works.....lb. 03½- .04½
tanks, works.....lb. 02½- —
Chromic, 99.5%-99¾%, dms., c.l.....lb. 21½ Nom.
l.c.l. .....lb. 22½- .23½
Cinnamic, rctd., bots.....lb. 3.90 - 4.00
Citric, anhyd., gran., fine gran., bbls.
lb. 23½- —
dms., c.l. .....lb. 24 - —
10,000 lbs., 1 ship't.....lb. 24½- —
kgs. .....lb. 25½- —
Anhydrous citric acid powder, ½c. per lb. higher.
USP, cryst., bbls., c.l.....lb. 25 - —
10,000 lbs., 1 ship't.....lb. 25½- —
smaller lots.....lb. 26 - —
kgs. .....lb. 26½- —
Acid, citric, USP, gran., fine gran., bbls., c.l..lb. .22 - —
10,000 lbs., 1 ship't.....lb. .22½- —
smaller lots.....lb. .23 - —
kgs. .....lb. .23½- —
USP citric acid powder ½c. per lb. higher
Cleve's, bbls., mixed.....lb. .61 - .65
Coconut oil, dist., dms.....lb. .33¼- .35
Corn oil, s.d., dms.....lb. .22 - —
Cottonseed, dist., dms.....lb. .23 - —
Cresylic, dom., coaltar, high-boil 50% (210°-215°), low boil 50% (204°-206°), and special blends, dms., c.l., works, frt. equald.
gal. 1.48 - —
l.c.l., same basis.....gal. 1.51 - —
tanks, same basis.....gal. 1.42 - —
Petroleum, heavy grade, 220° to 240° C, dms., c.l., dlvd. E. Rockies..gal. .86 - —
l.c.l., same basis.....gal. 1.00 - —
tanks, same basis.....gal. 77½- —
Calif. ref'y.....gal. .62 - —
235°-290° C, dms., c.l., dlvd. E. Rockies. gal. .79 - —
l.c.l., same basis..... gal. 1.00 - —
tanks, same basis.....gal. 70½- —
Calif. ref'y.....gal. .57½- —
Crotonic, bbls., Canadian, works.lb. .35 - —
Dichlorophenoxyacetic, fib. dms., c.l., works..lb. .80 - —
l.c.l., works.....lb. .85 - .95
Diethylbarbituric (see Barbital)
F (see Acid, monosulphonic)
Fedic, bots.....gm. 2.00 - 2.10
Formic, 85%, clys., c.l., works....lb. .12 - .13
l.c.l., works .....lb. .12½- .14½
90%, clys., c.l., works.....lb. .12½- .13¼
l.c.l., works .....lb. .13 - .14½
Fumaric, tech., bbls., dms.....lb. .27 - .31
Gallic, NF V, bbls., 1,000-lb. lots..lb. 1.40 - —
smaller lots .....lb. 1.43 - 1.45
technical, bbls., 1,000-lb. lots....lb. 1.22 - —
smaller lots .....lb. 1.26 - 1.28
Gamma, bbls. .....lb. 1.03 - 1.07
Gluconic, tech., 50%, bots.....lb. .28 - .31
dms. .....lb. .14 - —
kgs. .....lb. .16 - —
Glycolic (see Acid, hydroxyacetic).
H, bbls., works.....lb. .59 - —
Hydriodic, 45-47%, clys.....lb. 2.52 - 2.54
57%, clys. .....lb. 2.83 - 2.85
Hydrobromic, medicinal, 48%, clys., dlvd. E..lb. .48 - —
tech., 48%, clys., dlvd. E.....lb. .40 - —
34%, clys., dlvd. E.....lb. .35 - .37
Hydrochloric (see Acid, muriatic).
Hydrocyanic, clys., works.....lb. .80 - 1.00
dilute, NF, 2%, 5-lb. bots.....lb. .30 - .40
Hydrofluoric, anhyd., clys., works..lb. .19 - .19½
tanks, works .....lb. .16 - —
30%, steel dms., works.....lb. .09 - —
48%, steel dms., works.....lb. .12 - —
52%, steel dms., works.....lb. .12½- —
60%, steel dms., works.....lb. .13½- —
70%, steel dms., works.....lb. .15 - —
Hydrofluosilicic, 30-35%, bbls.....lb. .08 - .09
Hydroxyacetic, tech., 70%, bbls., non-return., Phila..lb. .084 - —
tanks, Belle, W. Va., 100% basis.
lb. .085 - —
Hypophosphorous, USP, dms.....lb. .75 - .77
J, bbls., works, 20% basis.....lb. 2.42 - —
L, bbls., works.....lb. .73 - —
Lactic, edible, 50%, bbls., 20 or more.
lb. .14½- —
smaller lots .....lb. .15 - —
80%, bbls., 5 or less.....lb. .24¼- .24¾
plastic grade, 50%, bbls., 20 or more.
lb. .17½- —
10 or less.....lb. .18¼- —
80%, bbls., 5 or less.....lb. .31¾- .32½
tech., 22%, bbls., c.l., works.100 lbs. 4.30 - —
l.c.l., works .....100 lbs. 4.80 - —
clys., works .....100 lbs. 5.30 - —
44%, bbls., c.l., works.....100 lbs. 8.15 - —
l.c.l., bbls., works.....100 lbs. 8.55 - —
clys., works .....100 lbs. 9.05 - —
USP XII, 85%, clys.....lb. .54 - .57
USP VIII, 75%, clys.....lb. .52 - .59
Laurent's, bbls. .....lb. .70 - —
Lauric, dist., 85-90%, dms..... lb. .42 Nom.
60%, dms.....lb. .39 Nom.
Linseed oil, light, dms.....lb. .43 - .43½
Maleic, powd., dms.....lb. .26 - .30
Anhydride (see M).
Malic, powd., kgs.....lb. .47 - —
Mandelic, NF, dms., 1,000-lb. lots..lb. 2.35 - —
smaller lots .....lb. 2.40 - 2.60
Mixed, tanks, nitric unit.....lb. .055 - .06
sulphuric unit .....lb. .0085- .009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloroacetic, purified, flake, 99% dms., lb. .22 - .23
tech., flake, 96-97%, bbls.....lb. .17½- .19½
Monosulphonic, bbls. .....lb. 1.50 - —
Muriatic, 18°, clys., c.l., E. works. 100 lbs. 1.50 - 1.70
l.c.l., E. works.....100 lbs. 1.90 - 2.90
tanks, E. works.....ton.18.00 -18.20
20°, clys., c.l., E. works....100 lbs. 1.85 - 2.00
tanks, E. works.....ton.20.00 -21.00
22°, clys., c.l., E. works....100 lbs. 2.35 - 2.50
tanks, E. works.....ton.22.00 -26.00
CP, USP, consumers, clys., extra. lb. .08 - —
6-lb. bots., extra.....lb. .10 - —
dealers, clys., extra.....lb. .06½- —
6-lb. bots., extra.....lb. .08½- —
Myristic, dist., dms.....lb. .45 Nom.
Naphthenic, 220-230 acidity, dms., extra, works..lb. .13 - —
tanks, works .....lb. .10 - —
230-240 acidity, dms., extra, works. lb. .20 - —
tanks, works .....lb. .17 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's).
Naphthol(1)-5-sulphonic (see Acid L).
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6,-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulphonic (see Acid, J).
(2)-6-sulphonic (see Acid, Broener's).
Neville and Winthers, dms.....lb. .75 - .76
Acid, nicotinic, USP, dms., works..kilo. 6.00 - 6.30
Nicotinic amide (see Nicotinamide).
Nitric, 36°, clys., c.l., E. works... 100 lbs. 5.00 - —
l.c.l., E. works.....100 lbs. 5.25 - 5.95
38°, clys., c.l., E. works....100 lbs. 5.50 - —
l.c.l., E. works.....100 lbs. 5.75 - 6.45
40°, clys., c.l., E. works....100 lbs. 6.00 - 6.50
l.c.l., E. works.....100 lbs. 6.25 - 6.95
42°, clys., c.l., E. works....100 lbs. 6.50 - 7.00
l.c.l., E. works.....100 lbs. 6.75 - 7.45
CP, USP, consumers, clys., extra. lb. .13 - —
7-lb. bots., cs., extra.....lb. .15 - —
dealers, clys., extra.....lb. .11½- —
7-lb. bots., cs., extra.....lb. .13½- —
Oleic (see Oil, red).
Oleum (see Acid, sulphuric, fuming).
Oxalic, bbls., c.l., works.....lb. .13¼- .13½
10,000 lbs., works.....lb. .13½- .13¾
smaller lots, works.....lb. .14½- .14¾
Palm oil, white, dist., dms.....lb. 21¼- 21¾
Para-aminobenzoic, purified, dms., works..lb. 4.00 - —
technical, bbls., works.....lb. 1.70 - —
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, cns. .....lb. .80 - —
Paratoluidinmetasulphonic, bbls., wks. lb. .85 - —
Peanut oil, s.d., dms.....lb. .25¼- .26¼
Phenylacetic, bots.....lb. 1.51 - 1.75
Phenylglycollic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 50%, bbls., c.l., works, frt. equald..... 100 lbs. 4.50 - —
l.c.l., same basis.....100 lbs. 5.25 - 6.00
clys., c.l., works, frt. equald.. 100 lbs. 5.00 - —
l.c.l., works, frt. alld.100 lbs. 6.00 - 7.50
75%, bbls., c.l., works, frt. equald..100 lbs. 5.75 - —
clys., c.l., works, frt. equald. 100 lbs. 6.10 - —
l.c.l., works, frt. alld..... 100 lbs. 8.00 - 9.00
tanks, works, frt equald.... 100 lbs. 4.00 - —
USP XII, 85%, 100 lb. clys., c.l..lb. .10½- —
l.c.l. .....lb. 11½- .13
70-lb. clys .....lb. 10½- —
l.c.l. .....lb. 11½- .13
dilut., 10%, clys., djns.....lb. 07 - .07½
Picramic, bgs.....lb. .65 - .70
Picric, bbls.....lb. .30 - .31
Propionic, nat., dms., works.....lb. .18 - —
tanks, works.....lb. .17 - —
synth., pure, dms., works.....lb .22 - —
tanks, works.....lb. .21 - —
Pyrogallic, tech., bbls.....lb. No prices
N.F., cryst., dms.....lb. 2.80 - 3.03
resub., dms.....lb. 3.30 - 3.45
Pyroligneous, bbls., incl., l.c.l., ex whse..gal. .43 - —
Ricinoleate (see Acid, castor oil, sodium).
S, bbls., works.....lb. 2.54 - —
Salicylic, tech., bbls., c.l.....lb. .31 - —
smaller lots.....lb. .38 - —
USP, bbls., c.l.....lb. .40 - —
smaller lots.....lb. .47 - —
Sebacic, tech., dms., c.l., works.. lb. No stocks
Soybean oil, s.d., c.l., works ...lb. 24½- .25
Stearic, double pressed, bgs.....lb. .37 - .38
single pressed, bgs.....lb. .36½- .37½
triple pressed, bgs.....lb. .39½- .40¼
Succinic, bbls.....lb. .87 - .90
Sulphanilic, CP, bots., works.....lb. 1.60 - 1.63
tech., dms., works.....lb. .17 - —
Sulphuric, 60°, clys., c.l., E. works. 100 lbs. 1.25 - —
l.c.l., E. works.....100 lbs. 1.50 - 2.20
tanks, E. works.....ton.12.25 - —
66°, clys., c.l., E. works....100 lbs. 1.50 - —
l.c.l., E. works.....100 lbs. 1.75 - 2.45
tanks, E. works.....ton.15.00 - —
98%, tanks, E. works.....ton.17.50 -15.58
CP, N.F., consumers clys., extra.lb. .08 - —
9-lb. bots., cs., extra.....lb. .10 - —
dealers, clys., extra.....lb. .06½- —
9-lb. bots., cs., extra.....lb. .08½- —
fuming, 20%, tanks, E. works..ton.19.50 -20.50
Tallow, dist., dms.....lb. .29½- .30¼
Tannic, tech., 60-62%, dms.....lb. .68 - .69
70-72%, dms. .....lb. .80 - .85
75-76%, dms. .....lb. .86 - .90
USP, fluffy, bbls., 1,000-lb. lots..lb. 1.45 - —
smaller lots.....lb. 1.47 - 1.55
powder, bbls., 1,000-lb. lots....lb 1.35 - —
smaller lots .....lb. 1.30 - 1.50
Tartaric, USP, bbls., 10,000 lbs., 1 ship't..lb. .45½- —
smaller lots .....lb. .46 - —
dms .....lb. .48 - .49
kgs. .....lb. .46½- —
Thioglycolic, refined, bbls., clys., basis 100%..lb. 1.95 - 2.00
tech., bbls., clys., basis 100%..lb. 1.40 - —
Tobias, bbls. .....lb. .62 - —
Toluenesulphonic, dms., works....lb. .20 - —
Trichloracetic, bots.....lb. 2.00 - 2.50
Tungstic, CP, 100-lb. pkgs.....lb 3.30 - —
pure, 100-lb. kgs.....lb. 3.10 Nom.
Aconite leaves, bls. .....lb. .60 - .65
Root, bls. .....lb. 1.10 - 1.15
Aconitine, amorph., mild, bots.....oz.32.50 - —
cryst., potent, bots.....oz.85.00 - —
Acrylonitrile, dms., c.l., works.....lb. .30½- —
l.c.l., works .....lb. .31 - .42
tanks, works .....lb. .29½- —
Adeps lanae (see Lanolin).
Adonis vernalis herb, bls.....lb. .60 - .65
Agar .....lb. 3.50 - 4.00
Agaric, white, bls. .....lb. 2.75 - 3.00
Agrimony herb, bls.....lb. .40 - .45
Albumen (egg), edible flake, bbls...lb. 2.96 - 3.00
powd., bbls. .....lb. 3.01 - 3.05
tech., cryst., bbls.....lb. 1.35 - 1.50
Albumin, blood dark (see Blood, dried, soluble)
light, dms., l.c.l.....lb. .70 - .75
Egg (see Albumen).

Alcohol, allyl, dms., c.l., dlvd.....lb. 26½- —
l.c.l., dlvd .....lb. 27 - —
tanks, dlvd. .....lb. 25 - —
Amyl, ex pentane, dms., c.l., frt. alld. E. of Miss..lb. .18 - —
l.c.l., frt. alld. E. of Miss. lb. .19 - —
tanks, frt. alld. E. of Miss....lb. .17 - —
(see also Fusel oil, ref.)
Benzyl, cns.....lb. .72 - .80
dms. .....lb. 68 - 88
Butyl, normal, ferment., Ill.,* Ind. prod., dms., c.l., frt. alld..lb. .32½- —
l.c.l., frt. alld. E.....lb. .30½- —
tanks, frt. alld. E.....lb. .34 - —
tankwagon, frt. alld. E....lb. .34½- —
other production, dms., c.l., frt. alld. E..lb. .33½- —
l.c.l., frt. alld. E.....lb. .34½- —
tanks, frt. alld. E.....lb. .32 - —
synthetic, dms., c.l., frt. alld. E..lb. .18½- —
l.c.l., frt. alld. E.....lb. .19 - —
tanks, frt. alld. E.....lb. .17 - —
Normal butyl alcohol prices in West, ½c per lb. higher
secondary, dms., c.l., dlvd.....lb. .12 - .13¼
l.c.l., dlvd. .....lb. .12½- .14
tanks, dlvd. .....lb. .10½- .12
tertiary, dms., c.l.....lb. .13½- —
l.c.l., dms. .....lb. .14 - —
tanks .....lb. .12 - —
Capryl, dms., c.l., works.....lb. .26 - —
l.c.l., works. .....lb. .27 - —
tanks, works .....lb. 24½- —
Cetyl, dom., CP., fiber ctns., 1,000 lbs..lb. 2.25 - —
smaller lots .....lb. 2.30 - 2.55
Cinnamic, bots. .....lb. 3.00 - —
Denatured, CD12, CD3, dms., dlvd. E. of Miss. R., gal. 1.00½- 1.03
l.c.l., dlvd. E. of Miss. R.gal. 1.04½- 1.12
tanks, dlvd E. of Miss. R..gal. .93½- .96
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R..gal. 1.00 - 1.03
l.c.l., same basis.....gal. 1.04 - 1.12
tanks, same basis.....gal. 93 - .96
SD2B, dms., c.l., dlvd. E. of Miss. R..gal. 1.00 - 1.03
l.c.l., same basis..... gal. 1.04 - 1.12½
tanks, same basis.....gal. .93 - .96½
SD23H, dms., c.l., dlvd. E of Miss. R. gal. .98 - 1.01½
l.c.l., same basis..... gal. 1.02 - 1.10½
tanks, same basis..... gal. .91 - .94½
SD29, denatured with acetaldehyde, dms., c.l., dlvd. E. of Miss. R..gal. 1.04 - —
l.c.l., same basis.....gal 1.08 - 1.13
tanks, same basis.....gal. .97 - —
When any of the several SD29 denaturants is supplied by the purchaser, the prices are the same as those of SD21 plus 1½c. per gal. denaturing charge.
Special solvent, dms., c.l., dlvd. E Miss. R..gal. 1.03 - 1.03¾
l.c.l., same basis.....gal. 1.07 - 1.12
tanks, same basis .....gal. .96 - .96¾
Tankcar sales require written authorization by Alcohol Tax Unit.
Diacetone, acetone free, dms., c.l., dlvd..lb. .13½- .14¼
l.c.l., dlvd. .....lb. .14 - .15¼
tanks, dlvd .....lb. .12 - .13
tech., dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .15 - —
tanks, dlvd.....lb. .12½- —
Ethyl, 190 pf., dms., c.l., dlvd. E. Miss. R..gal.18.10 -18.13
l.c.l., same basis.....gal.18.14 -18.22
tanks, same basis.....gal.18.03 -18.06
absolute, dms., c.l., same basis. gal.19.03 -19.10
l.c.l., same basis.....gal.19.11 -19.19
tanks, same basis.....gal.19.00 -19.03
Ethylhexyl, dms., c.l., works.....lo 29½- —
l.c.l., works .....lb. 30½- —
tanks, works .....lb. 28½- —
Furfuryl, tech., cns., works.....lb. 37 - —
dms., c.l., works.....lb. 22½- —
l.c.l., works.....lb. 25 - —
tanks, works..... lb. 19 - —
Isoamyl (see Carbinol, Isobutyl).
Isobutyl, refd., dms., works.....lb 13 - —
tanks, works.....lb. .12 - —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd..gal. .50½- —
l.c.l., dlvd .....gal. .53½- —
tanks, dlvd.....gal. .41 - —
99%, dms., incl., c.l., dlvd....gal. .54½- —
l.c.l., dlvd.....gal. .57½- —
tanks, dlvd.....gal. .45 - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl).
Octyl, perfumer's grade, bots....lb. 4.00 - 4.40
Phenylethyl, dms.....lb. 2.30 - 3.50
Polyvinyl, type A, fiber-pack, Niagara Falls..lb. .65 - .70
type B, fiber-pack, same basis..lb. .60 - .68
Propyl, normal, dms., c.l., works..lb. 12½- —
l.c.l., works.....lb. .13 - —
tanks, works.....lb. .11 - —
Salicyl (see Salicylic).
Tetrahydrofurfuryl, cns., Cedar Rapids, Ia..lb. .47 - —
dms., c.l., Waverly, N. Y..lb. .40 - —
l.c.l., same basis.....lb. .44 - —
tanks, Niagara Falls, N. Y.....lb. .36 - —
Aldol, 95%, dms., works.....lb. .15 - .16
denaturing grade, dms.....gal 1.35 - 1.48
Aletris root, bgs. .....lb. 1.85 - 1.90
Algin, bbls., fib, dms .....lb. .70 - 1.00
Alizarin (see Red, alizarin).
Alkanet root, bgs. .....lb. .70 - .75
Allspice, Jamaica (see Pimento).
Mexican, bgs. .....lb. .12½ Nom.
Allyl bromide, clys., 5,000 lbs., works lb. .99 - —
smaller lots, works.....lb. 1.05 - 1.10
Chloride, dms., c.l., dlvd.....lb. .14 - —
l.c.l., dlvd. .....lb. 14½- —
tanks, dlvd.....lb. 12½- —
Aloe, Cape, cs.....lb. .30 - .31
Curacoa, kgs.....lb. .35 - .36
Socotrine, kgs.....lb. .35 - .36

Aloin—Asbestine

Aloin, bbls., dms., kgs.....lb. 3.75 - 4.05
Alphacellulose, bgs., c.l., works....lb. .64 - .15
Alphanaphthol, bbls.....lb. .64 - —
Alphanaphthylamine, bbls.....lb. .35 - 35¼
Alphanaphthylthiourea, fib. dms., works, frt. alld..lb. 4.00 - 4.40
Alphanitronaphthalene, bbls.....lb. .31 - —
Alphapicoline, ref. dms., works, frt. equald..lb. .27½- .30
Alphapinene, tanks, S. works....gal. .47 - —
Alphaterpineol, dms., l.c.l., dlvd. E..lb. .18 - —
Alphatocopherol, ampuls.....kilo.750.00 - —
Althea root, NF, peeled, bls.....lb. .35 - 40
Alum, ammonia, burnt, USP, bbls., kgs. lb. .16 - .18
gran., bbls., works.....100 lbs. 4.00 - —
lump, bbls., works.....100 lbs. 4.25 - —
powd., bbls. works.....100 lbs. 4.40 - —
Potash, gran., bbls., works...100 lbs. 4.25 - —
lump, bbls., works.....100 lbs. 4.50 - —
powd., bbls., works.....100 lbs. 4.65 - —
Potash-chrome, bbls.....lb. 12½- .15
Soda, bbls., c.l., works.....100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina, classified grade, grd., kgs., works..lb. .35 - .37
top grade, grd., kgs., works....lb. .60 - .67
unclassified, grd., kgs., works..lb. 10½- .40
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works..lb. .11 - —
20%, bbls., l.c.l., works.....lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works..lb. .10 - .11
l.c.l., works.....lb. .10½- —
cryst., com'l, dms., c.l., works..lb. .06 - —
l.c.l., works.....lb. .06½- .06¾
solution, 32°, chys., c.l., works..lb. .02¾- —
l.c.l., works.....lb. .03¼- —

Aluminum fluoride, tech., anhyd., bbls., c.l., works..lb. .10 - —
Formate, solution, 19° Be., bbls., c.l., lb. .09½- —
l.c.l., works.....lb. .10 - —
Hydrate, heavy, bgs., c.l., works.ton.56.00 - —
l.c.l., works.....ton.76.00 - —
light, bgs., dlvd.....lb. .17 - —
Hydroxide gel, tech., min. 15% Al (Al_2O_3), dms., 10,000 lbs. or more, f.o.b. ship't point....lb. .03 - .03⅛
ton lots, same basis.....lb. .03¼- .05⅛
smaller lots, same basis....lb. .03¾- .04
tech., 14-15% Al_2O_3, fib. dms., works..lb. .20¾- —
contract, works.....lb 19¾- —
9-9½% Al_2O_3, fib. dms., works, lb. .17¾- —
contract, works.....lb. .16¾- —
dried, USP XII, fib. dms., works, lb. .78 - —
contract, works.....lb. .75 - —
powder, tech. (see Aluminum hydrate).
USP IX bbls., dms.....lb. .15 - .17
Laurate, precip. bbls.....lb. .42 - —
Linoleate, solid, bbls.....lb. .52¼- —
Metal, 98-99%, ingots, 10,000 lbs..lb. .15 - —
pigs, 10,000 lbs.....lb. .14 - —
Naphthenate, 1.7% Al, dms., wks.lb. .19 - —
Oleate, dms., contract.....lb. .46¾- —
Paste, ivory, extra fine, dms...lb. .56 - .63
standard, dms.....lb. .38 - .43

Aluminum powder, lining, extra fine, dms..lb. .90 - —
litho, dms.....lb. .47 - .60
standard, dms.....lb. .62 - —
rubber comp., dms.....lb. .47 - —
unpolished, stand., dms.....lb. .43 - .44
varnish, stand., dms.....lb. .47 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 60-lb. dm., 3c. per lb. for 10-lb. can, and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier, transportation rate will be made from sellers' invoice on orders of 200 lbs. or over.

Resinate, precip., dms.....lb. .20½- —
Stearate, dibasic, ctns., c.l.....lb. .47 - —
l.c.l.....lb. .48 - —
monobasic, ctns., c.l.....lb. .47 - —
l.c.l.....lb. .48 - —
tribasic, ctns., c.l.....lb. .52 - —
less ton quantities.....lb. .53 - .54
Sulphate, com'l, bgs., c.l., works, frt. equald..100 lbs. 1.15 - 1.30
l.c.l., same basis.....100 lbs. 1.40 - 1.50
bbls., c.l., same basis....100 lbs. 1.55 - 1.60
l.c.l., same basis.....100 lbs. 1.95 - 2.00
iron-free, bgs., c.l., works..100 lbs. 1.95 - 2.25
l.c.l., works.....100 lbs. 2.35 - 2.50
Trihydrate, heavy (see Aluminum hydrate).
Ambergris, gray, tins.....oz. 8.50 -12.00
Aminoazotoluene, bbls.....lb. .85 - —
Aminoethylpropanol, cns., dms., works. lb. .60 - .60

Aminoethylethanolamine, tanks, works. lb. .60 - —
Aminopyrine, bots., dms.....lb. 5.50 - 5.60
Ammonia, anhydrous, fertilizer, tanks, works, frt. equald..ton.59.00 - —
pure, cyls., extra.....lb. .16 - —
refrigeration, tanks, works....ton.61.50 - —
Aqua, dms., c.l., works.....lb. .03 - .03¼
l.c.l., works.....lb. .03½- —
tanks, works (NH_3 content)....ton.65.00 - —
Ammoniac gum (see Gum, ammoniac),
Sal, gray, bbls., c.l., works..100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.40 - —
white, gran., bbls., c.l., works.. 100 lbs. 4.75 - —
l.c.l., works.....100 lbs. 5.00 - —
Ammonium acetate, purified, dms...lb. .39 - .40
reagent, jars.....lb. .58 - .60
Benzoate, USP, dms., kgs., 4,000 lbs., frt. alld..lb. .43 - —
smaller lots, frt. alld.....lb. .44 - .47
Biborate, bbls., c.l., works.....ton.320.00 - —
ton lots, works.....ton.338.50 - —
less ton lots, works.....ton.343.50 - —
Bicarbonate, dms., works, c.l.....lb. .06¼- .0975
Bichromate, bbls., works.....lb. .26 - .30
Bifluoride, bbls.....lb. .15 - 15½
Bromide, gran., NF, bbls.....lb. .36 - .37
dms.....lb. .37 - .40
powdered ammonia bromide 10c. per lb. higher.
Carbonate, USP, lump, dms.....lb. .16½- .17
powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, bbls., dms., kgs.....lb. .13 - .15
Citrate, dibasic, bbls.....lb. .75 - —
dms.....lb. .80 - .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms.....lb. 1.25 - 1.27
Iodide, NF, jars.....lb. 3.90 - 3.96
Linoleate, plastic, 80%, dms., works.. lb. .40½- —
kgs., works.....lb. .42½- —
25%, dms., frt. alld. zone 1...lb. .21½- —
tech., bbls., works.....lb. .37 - —
dms., works.....lb. .39 - —
Molybdate, CP, cryst., kgs.....lb. 1.26 - 1.30
fine cryst., bbls., kgs.....lb. .84 - .87
purified, dms.....lb. 1.10 - 1.12
Nitrate, fertilizer grade, Canadian, 33.5% N, bgs., c.l., shipping point..ton.79.50 - —
dom., bgs., western works....ton.48.50 - —
Nitrate-dolomite, 20.5% N, bgs., Hopewell, Va..ton.37.50 - —
Oleate, dms.....lb. .31½- —
Oxalate, fine gran., bbls.....lb. .23 - —
dms.....lb. .25 - .29
Pentaborate, gran., bbls., c.l., works. ton.230.00 - —
ton lots, works.....ton.248.50 - —
less ton lots, works.....ton.253.50 - —
Ammonia pentaborate powder, $10 per ton higher.
Perchlorate, kgs.....lb. .25 - —
Persulphate, kgs.....lb. .25½- .28¼
Phosphate, dibasic, NF V, bbls., kgs. lb. .37 - .39
tech., bgs., c.l., works.....lb. .07 - —
l.c.l., works.....lb. .07¾- —
Salicylate, NF, dms., kgs.....lb. 1.25 - —
Silicofluoride, bbls., works.....lb. .12½- —
Stearate, anhydrous, dms.....lb. .34 - —
paste, dms.....lb. .06½- —
Sulphamate bbls., dms., works....lb. .18 - .20
Sulphate, bulk, producing ovens..ton.38.00 -40.00
Sulphide, liquid, 40-45% basis, 100% dms., c.l., works..lb. .10 - —
l.c.l., works.....lb. .10½- —
tanks, dlvd. or frt. alld....lb. .08½- —
Sulphocyanate, pure, dms., jars...lb. .63 - .71
Sulphocyanide, tech., bbls.....lb. .17 - .19
Thiocyanate (see Ammonia sulphocyanide).
Thioglycolate, highly purified, 100% basis, bbls..lb. 7.10 - 8.25
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .30½- —
l.c.l., dlvd.....lb. .31½- —
tanks, dlvd.....lb. .29 - —
ex pentane, dms., c.l., frt. alld. E. of Miss. R..lb. .24 - —
l.c.l., same basis.....lb. .25 - —
tanks, same basis.....lb. .23 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms.....lb. .90 - 1.00
Chloride, mixed, tech., dms., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .06 - —
Ether (see Ether, amyl).
Nitrite, USP, bots.....lb. 1.75 - 1.83
Mercaptan, dms., works.....lb. 1.10 - —
Salicylate, ens.....lb. .77 - .90
Stearate, dms., works.....lb. .42 - .45½
Anethol, com'l, dms., works.....lb. .50 - —
NF, dms.....lb. .99 - 1.40
Angelica root, dom. (atropurpurea), bls..lb. 1.10 - 1.15
imported, bls.....lb. 1.50 - 1.60
Angostura bark, bls.....lb. .55 - .60
Anilin oil, dms., c.l., works, frt. alld..lb. .15 - —
l.c.l., works, frt. alld.....lb. .16 - —
tanks, works, frt. alld.....lb. .14 - —
Salt, dms., works.....lb. .22 - .24
Anise, Argentine, bgs.....lb. No stocks
Chinese, Star.....lb. .14½- .15
Cyprus, bgs.....lb. .23½- .24
Mexican, bgs., futures.....lb. .24½- .25
Syrian, bgs.....lb. .23½- .24
Anisic aldehyde, bots., ens.....lb. 2.53 - 3.35
dms.....lb. 2.42 - 2.75
Annatto paste, bxs.....lb. .34 - .37
Seed, bgs.....lb. .19 - .20
Anthracene, 80-85%, bbls., works....lb. .60 - .86
80%, bbls., works.....lb. .81 - 1.60
Anthraquinone, 99.5%, bbls.....lb. .70 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal, bulk, c.l., mines.....lb. .33 - .33½
Needle, cs.....lb. No stocks
Oxide, ceramic grade, bgs., c.l., dlvd..lb. .27 - .27½
l.c.l., dlvd.....lb. .27⅝- .28½
paint grade, bgs., c.l., works....lb. .27½- .31
l.c.l., works.....lb. .28¼- .32⅝
Salt, 65%, bgs., c.l., dlvd. E. of Miss. lb. No stocks
Sulphide, 65-70%, bbls., c.l., works. lb. .22 - —
l.c.l., works.....lb. .24 - —
Antipyrine, bbls.....lb. 2.35 - 2.45
Apomorphine, bots.....oz.23.20 -23.70
Archil extract, bbls.....lb. No stocks
Areca nuts, powd., bbls.....lb. .22 - .23
Arecoline hydrobromide, bots.....oz. 6.10 - 7.10
Antimony-potassium tartrate (see Tartar emetic)
Argols, min. 70%, bgs., shipment ports, per 100 kilos (100% purity).32.00 -34.00
Arnica flowers, bls.....lb. 1.10 - 1.15
Arrowroot, powd., bgs., bbls.....lb. .16 - .17
Arsenic, metal, lump, bbls., c.l.....lb. No stocks
Metal, lump, bbls., c.l.....lb. No stocks
Sulphide, yellow, bbls.....lb. No stocks
Trioxide (see Acid, arsenous).
White, powd., bbls., c.l.....lb. .06¾- —
l.c.l.....lb. .08 - .09
Asafetida, cs.....lb. .50 - .55
powd., bbls., dms.....lb. .72 - .77
Asbestine (see Talc, N. Y., fibrous).

IN THE SNAKE RIVER VALLEY

The Simplot Fertilizer Company, Pocatello, Idaho—though a newcomer in the field, is one of the fastest growing organizations in the fertilizer industry, currently mining large quantities of phosphate rock, producing phosphate and nitrogen phosphate mixtures—expanding in other directions.

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SPENSOL
SPENCER NITROGEN SOLUTIONS

The demand for well-conditioned, economical fertilizers makes necessary the manufacture of thousands of tons of materials for domestic needs.

The TECHNICAL PERFECTION in production of Spencer's Nitrogen Solutions, SPENSOL plus Spencer's mid-continent location means SERVICE-PLUS SUPPLY for the growing fertilizer industry in the West.

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COMPOSITION OF SPENSOL (SPENCER NITROGEN SOLUTIONS)						
	Ammonium Nitrate %	Anhydrous Ammonia %	Water %	Total Nitrogen %	Nitrate Nitrogen %	Ammonia Nitrogen %
SPENSOL A	65.0	21.7	13.3	40.6	11.37	29.22
SPENSOL B	55.5	26.0	18.5	40.8	9.71	31.10
SPENSOL C	66.8	16.6	16.6	37.0	11.69	25.34

MANUFACTURERS OF *HI-NITROGEN* AGRICULTURAL PRODUCTS

For Immediate Shipment

CALCIUM LACTATE
(Edible and U.S.P.)

ETHYL ACETATE
(95-98%)

PARAFFIN WAX
(133-35° M.P.)

STEARIC ACID
(Triple Pressed)

TETRACHLORETHANE
(Acetylene Tetrachloride)

ZINC SULPHATE
(Monohydrate and Pentahydrate)

We have a quantity of empty 55-Gallon Drums and 13-Gallon Carboys available.

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TELEPHONE LEXINGTON 2-3324
CABLE—"WILNEUBERG"

Asbestos—Blue Vitriol

Asbestos fiber, 5D and 5K, bgs., c.l. (20 tons), Can. mines..ton 73.00 - —
5R, bgs., c.l. (20 tons), same basis ton 65.00 - —
6D, bgs., c.l. (30 tons), same basis ton 48.50 - —
†D, bgs., c.l. (30 tons), same basis, ton 44.50 - —
†F, bgs., c.l. (30 tons), same basis ton 42.00 - —
†K, bgs., c.l. (30 tons), same basis, ton 31.00 - —
†M, bgs., c.l. (30 tons), same basis, ton 27.50 - —
†R, bgs., c.l. (30 tons), same basis ton 26.50 - —
†RF, bgs., c.l., same basis....ton 27.00 - —
†T, bgs., c.l., same basis.....ton 25.50 - —
†TF, bgs., c.l., same basis....ton 27.00 - —
Asphaltum, California, dms., c.l. ton 36.40 - —
l.c.l. .....ton 41.40 - —
Cuban, A, bulk, c.l.....ton 60.00 - —
l.c.l. .....ton 90.00 - —
B, bulk, c.l.....ton 38.50 - —
l.c.l. .....ton 55.00 - —
Gilsonite, brilliant black, selects 270°-295° F fus. pt., bgs., f.o.b. Colo. mines..ton 36.50 - —
seconds, 300°-330° F fusing point, not uniform, bgs., mines..ton 29.00 - —
Jet, bgs., ton lots, gross weight, Colo. mines..ton 29.00 - —
Manjak, No. 10, crude, dms., works. lb. .06½- —
process form, bgs., works .....lb. .05¾- .12
Mexican, refd., dms., f.o.b. Tampico, metric ton 27.50 - —

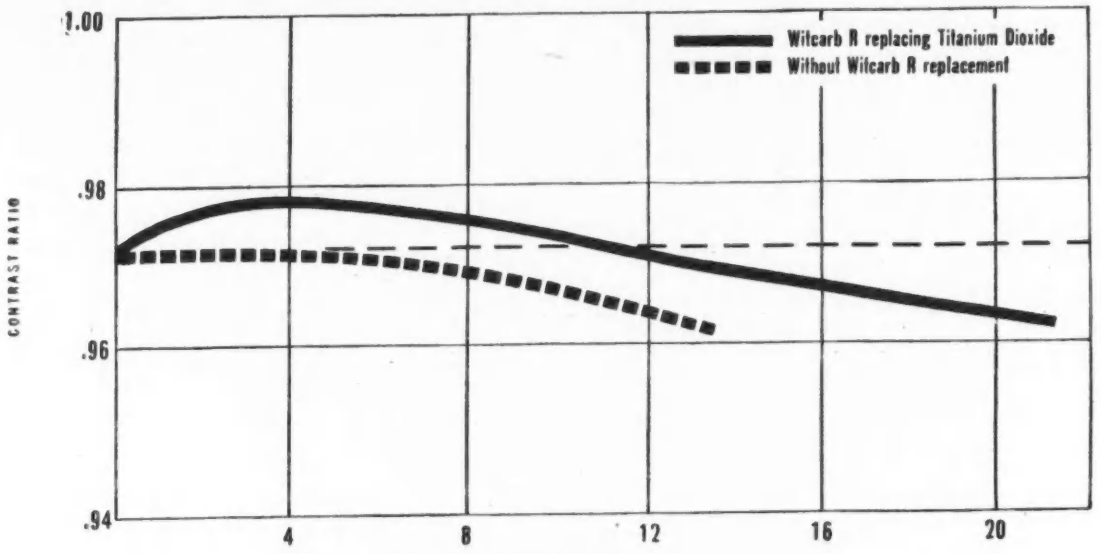
Asphaltum, South American, refd., dms., c.l., N. J. refy..ton 22.00 -23.00
l.c.l., same basis.....ton 24.00 -25.00
tanks, same basis.....ton 15.00 - —
Atropine, bots.....oz. 10.80 -12.00
Sulphate, bots.....oz. 8.90 - 9.85

B

Balm of Gilead buds, bgs.....lb 2.25 - 2.50
Barbasco root (see Cube root).
Barberry root bark, bgs.....lb. .78 - .80
Barbital, dms. .....lb 4.50 - —
Sodium, dms. .....lb 4.75 - —
Barium carbonate, precip., bgs., 10 tons and up, works..ton 67.50 -75.00
small lots, works.. .....ton 74.50 -82.00
Chlorate, kgs., works.....lb. .25½- .31
Chloride, NF, cryst., dms.....lb. .25 - .27
pure, bbls., kgs.....lb. .10 - .12
tech., bgs., c.l., works.....ton 85.00 - —
l.c.l., works .....ton 95.00 - —
Dioxide, dms., c.l., works.....lb. .12 - —
l.c.l., works .....lb. .12 - —
Fluoride, bbls. .....lb. .14 - —
Hydrate, crystals, bgs.....lb. .09 - .09½
Hydroxide, bbls., works.....lb. .19 - —
Iodide, bots. .....lb. 5.12 - —
Monoxide (see Oxide)
Nitrate, bbls., c.l., works.....lb. .11½- —
l.c.l., works .....lb. .13 - —
Oxide, grd., dms., works.....lb. .11 - .11½
l.c.l., works .....lb. .12½- .13½
Peroxide (see Dioxide).
Barium silicofluoride, bbls.....lb. .17 - .19
Stearate, ctns., 1-ton up.....lb. .51 - .52
smaller lots.....lb. .53 - .54
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. .....lb. .10 - .10½
kgs. .....lb. .12½- —
Sulphide, dms., c.l., works.....ton 55.00 - —
l.c.l., works .....ton 70.00 - —
Baryte ore, approx. 94% $BaSO_4$, bulk, mines..ton. 9.40 -12.50
Barytes, water-grd., paper bgs., c.l., St. Louis..ton 33.30 - —
l.c.l., same basis.....ton 35.10 - —
ex whse., N. Y.....ton 46.25 - —
Southern off-color, bgs., mines....ton 19.00 - —
95.75%, bgs., mines.....ton 20.00 - —
Bay leaves (see Laurel leaves).
Barberry bark, bgs.....lb. .12 - .13
Belladonna leaf, bls.....lb. 1.40 - 1.50
Root, bls. .....lb. .75 - .80
Bauxite, bulk, mines.....ton. 8.50 -10.00
Bentonite, 200 mesh, bgs., works..ton 11.00 - —
Benzaldehyde, NF, dms.....lb. .68 - .90
tech., cbys., dms .....lb. .45 - .55
Benzene (see Benzol).
Hexachloride, tech., 11% gamma bgs., dms., c.l., works..lb. 35¾- 42½
l.c.l., works .....lb. .379 - .474
dust, dry, 50%, dealers, dms., c.l., works..lb. .33 - —
l.c.l., works. .....lb. .34 - .35
wet, 50%, dealers, dms., c.l., works..lb. .34 - —
l.c.l., works .....lb. .35 - .36
Benzidin base, bbls.....lb. .77 - —
Benzocaine, cns .....lb. 3.50 - 3.85

Benzol (benzene), pure, nitration and 90%, dms. ret., works..gal. .27 - .29
tanks, E. of Omaha, frt. alld. up to 2c..gal. .21 - —
W Coast, Minnequa, Colo., same basis..gal. .21 - —
Benzophenone, dms. .....lb. 1.15 - 1.60
Benzoyl chloride, cbys.....lb. .20 - .28
Peroxide, pure, fib. ctns., works...lb. .90 - 1.05
Benzyl acetate, f.f.c., dms.....lb. .60 - 1.00
dms .....lb. .60 - .70
Alcohol (see Alcohol, benzyl).
Benzoate, f.f.c., cns., dms.....lb. 1.00 - 1.40
Chloride, refined, cbys.....lb. .22 - —
tech., cbys., works, frt. equald..lb. .20½- —
Cinnamate, cns.....lb. 3.65 - 4.00
Formate, cns. .....lb. 1.95 - 2.50
Propionate, bots. .....lb. 1.85 - 2.30
Salicylate, bots. .....lb 1.80 - 2.25
Benzylidinacetone, bots.....lb 1.85 - 2.70
Benzylisoeugenol, bots. .....lb. 9.50 - —
Berberine bisulphate, cns.....lb. No stocks
Hydrochloride, bots. .....lb. No stocks
Sulphate, cns. .....lb. No stocks
Berberis root, bls.....lb. .30 .35
Betagammapicolin, dms., c.l., works. lb. .23½- —
l.c.l., works .....lb. .24 - —
Betanaphthol, resublimed, dms., works .lb .72 - .75
tech., bbls., c.l., works.....lb. .27½- —
l.c.l., works .....lb. .29½- —
Benzoate, fib dms., works.....lb 1.75 - —
Salicylate, dms. .....lb 5.00 - —
Betanaphthylamine, tech., bbls., works. lb. .62 - —
Betapicolin, 99%, ret. dms., c.l., works lb. 1.35 - —
l.c.l., works .....lb. 1.70 - —
Beth root, bls .....lb. .55 - .60
Bismuth chloride, jars.....lb. 4.50 - —
Citrate, USP VIII, jars.....lb. 3.12 - —
Hydroxide, dms. .....lb 4.00 - —
Metal, bxs., ton lots.....lb. 2.00 - —
Nitrate, cryst., cns.....lb 1.40 - —
Oxychloride, cns. dms.....lb 3.80 - —
Oxide, anhydrous, dms.....lb 4.20 - —
Subcarbonate, USP, dms.....lb. 2.60 - 2.63
Subgallate, NF, fib dms.....lb. 2.45 - 2.48
Subiodide, fib, dms.....lb. 4.13 - —
Subnitrate, USP, dms.....lb. 2.15 - 2.18
Subsalicylate, USP, dms.....lb. 3.05 - —
Sulphocarbolate, fib. dms.....lb 4.05 - —
Bismuth ammonium citrate, USP, powd., dms..lb. 3.70 - —
Black, acetylene, bgs., c.l., works..lb. .13½- —
c.l., l.c.l., ship. pt.....lb. .17 - .18
Bone, bgs., bbls., l.c.l., dlvd.....lb. .14⅝- .22⅝
Carload price is ½c. per lb. under the above schedule, with deliveries to the Pacific Coast, ex dock or whse., 1½c per lb. higher.
Carbon, channel, beads, bulk, c.l., works..lb. .065 - —
bgs., c.l., works.....lb. .0682- —
l.c.l., works.....lb. .07 - —
dlvd. or whse.....lb. .10¾- .12
uncompressed, regular, bgs., c.l., works..lb .075 - —
bgs. ctns., l.c.l., dlvd. or whse lb .12¾- —
furnace, HMF, bgs., c.l., works lb .06 - —
ctns., l.c.l., whse.....lb. .09 - —
SRF, bgs., c.l., works.....lb .035 - —
ctns., l.c.l., whse.....lb. .075 - —
Charcoal (see C)
Graphite (see G).
Iron oxide, synthetic, bgs., c.l., works..lb. .09¾- —
l.c.l., works.....lb. .10 - —
Lamp, bgs., c.l., works.....lb. .07 - .30
Mineral, bgs., l.c.l .....ton 26.00 -31.00
Black ash (see Barium sulphide).
Black dyes (see Dyes).
Black haw root, bark, bls.....lb. .80 - .85
Tree bark, bls. .....lb. .35 - .43
Black Indian hemp root, bls.....lb. .55 - .60
Blanc fixe, dry, by-product.. bgs., c.l., works..ton 75.00 - —
l.c.l., works .....ton 82.50 - —
direct process, bgs., c.l., works, ton 85.00 - —
l.c.l., works .....ton 90.50 - —
N. Y. whse.....ton 108.00 -120.00
bbls., c.l., works.....ton 90.00 - —
l.c.l., works .....ton 95.00 - —
N. Y. whse.....ton 113.00 - —
pulp, 60% c., bbls., c.l., works..ton 65.00 - —
l.c.l., same basis.....ton 71.00 - —
Bleaching powder, dms., c.l., works.... 100 lbs. 3.75 - —
l.c.l., works .....100 lbs. 4.25 - —
bbls., c.l., works.....100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 4.00 - —
Blood, dried, 16-16½% ammo., bgs.... unit-ton 11.50 - —
high-grade, unground, 16-17% ammon, bulk, Chicago..unit-ton 11.00 - —
soluble, bgs., l.c.l.....lb. .17 - .25
Bloodroot, bls. .....lb. .75 - .80
Blue, alkali, dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. River, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis, lb. 1.90 - —
Toner, bbls., litho flushed, same basis..lb. 1.10 - —
Celestial, bbls., same basis.....lb. .15 - .16
Chinese, bbls., same basis.....lb. .42 - —
Cobalt, genuine, bbls., same basis lb 4.90 - —
imitation (see Blue, ultramarine).
Copper-phthalocyanin, full strength, bbls., same basis..lb. 3.75 - 3.85
80%, bbls., same basis.....lb. 3.00 - 3.40
Iron (see Blue, Chinese, Milori, Potash Prussian, and Soda).
Methyl violet toner, bbls., same basis. lb. 4.20 - —
Milori, bbls., same basis.....lb. .42 - —
Peacock, fugitive, 100% color strength, same basis..lb. .60 - .70
Permanent toner, green shade, molybdic, bbls., same basis. lb. 3.75 - —
Tungstic .....lb. 4.00 - —
Potash, CP, bbls., same basis.....lb. .48 - —
Prussian bbls., same basis.....lb. .42 - —
soluble, bbls., same basis.....lb. .42 - —
Soda, CP, bronze, bbls., same basis, lb. .39 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis..lb. .25 - .29
jobbing type, dry, bbls., same basis..lb. .14 - .15
regular types, dry or pulp, bbls., same basis..lb. .19 - .29
Victoria, toner, molybdic, bbls....lb. 3.75 - —
Tungstic, bbls.....lb. 3.75 - —
Ink toner, bbls., same basis....lb. 2.05 - 2.12
Violet toner, molybdic, bbls., same basis..lb. 1.24 - —
Tungstic, kgs., same basis....lb. 2.60 - 2.70
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport, 1½c., Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls.....lb. No stocks
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).

Hiding Power



FORMULATION

	For 100-102 gals.
Titanium Dioxide	296 to 237 lbs.
Witcarb R	0 to 59 lbs.
Refined Linseed Oil	26 gals.
Medium Oil Alkyd Resin Solution, 49% solids	65 gals.

WITCARB R, when used in the manufacture of quality paints in quantities up to 10 to 12% of total pigment volume, improves performance in several respects:

1. ADDS TO DEPTH OF COLOR
2. CHECKS FLOWING
3. PREVENTS COLOR SEPARATION
4. RETARDS PENETRATION
5. GIVES HARDER FILMS

And right now there is still another important reason for using Witcarb R:

6. IT CONSERVES SCARCE PIGMENTS WITH NO LOSS IN HIDING POWER.

Ask for samples of Witcarb R and see for yourself. Or better still, request a call from a technical representative.

WITCO CHEMICAL COMPANY
MANUFACTURERS AND EXPORTERS
295 MADISON AVENUE · NEW YORK 17, NEW YORK
LOS ANGELES • BOSTON • CHICAGO • DETROIT • CLEVELAND • AKRON
SAN FRANCISCO • LONDON AND MANCHESTER, ENGLAND

Boldo leaves, bls.....lb. .11 - .13
Bone, raw, bulk, Chicago.....ton.75.00 - —
junk, bulk, same basis.....ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works..ton.65.00 - —
Chicago, works.....ton.60.00 - —
steamed, feeding grade, 1% ammon., 60% phos., bgs., E. works..ton.65.00 - —
Chicago, works .....ton.65.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works..ton.60.00 - —
Chicago, works .....ton.60.00 - —
Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate tribasic precip).
Boneset leaves, bls.....lb. .17 - .18
Borage flowers, bls.....lb. .53 - .56
Borax, tech., 99½%, cryst., paper bgs., c.l., works, frt. split..ton.74.50 - 76.00
ton lots, ex whse., N. Y. or Chi..ton.94.20 -94.50
less ton lots, same basis..ton.99.20 -99.50
bbls., c.l., works, frt. split..ton.94.50 - —
ton lots, ex whse., N. Y. or Chi..ton.114.20 -114.50
less ton lots, same basis..ton.119.20 -119.50
fine gran., bulk, works.....ton.44.50 -47.50
paper bgs., c.l., works, frt. split. ton.48.50 - —
ton lots, ex whse., N. Y. or Chi..ton.68.20 -68.50
less ton lots, same basis..ton.73.20 -73.50
bbls., c.l., works, frt. split..ton.68.50 - —
ton lots, ex whse., N. Y. or Chi..ton.88.20 -88.50
less ton lots, same basis..ton.93.20 -93.50
powdered, paper bgs., c.l., works, frt. split..ton.53.50 - —
ton lots, ex whse., N. Y. or Chi..ton.73.20 -73.50
less ton lots, same basis..ton.78.20 -78.50
bbls., c.l., works, frt. split..ton.73.50 - —
ton lots, ex whse., N. Y. or Chi..ton.93.20 -93.50
less ton lots, same basis..ton.98.20 -98.50
Borax packed in kgs. is $40 per ton higher than borax packed in paper bags. USP, $15 per ton higher.
Bordeaux mixture, bgs., c.l., whse., works, frt. alld..lb. .15 - .21
l.c.l., same basis.....lb. .16 - .23
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate).
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies..lb. .21 - —
1,000 lbs., same basis.....lb. .22 - —
single pkgs., same basis.....lb. .28 - —
dms., lead-lined, c.l., dlvd.....lb. .19 - —
Bromoform, USP, bots.....lb. 1.50 - 1.70
cbys. .....lb. 1.42 - —
Bromstyrol, bots.....lb. 4.85 - 6.25
Bronze powder, aluminum (see A).
Gold, litho., cans, dms., works..lb. .50 - .60
moulding, cans, dms., works..lb. .80 - 1.00
printing ink, cans, dms., works. lb. .95 - 1.10
radiator, cans, dms., works...lb. .60 - .65
Broomtop, bls.....lb. .29 - .30
Brown, iron, synth., bgs., l.c.l., works. lb. .12 - .12½
Oxide, metallic, bgs., c.l., works.lb. .02¾- .03
Sap, crystals, works.....lb. .12 - —
powdered .....lb. .13 - —
Sienna, burnt, American, works, paper bgs., l.c.l..lb. .06¾- .10¾
Italian type, bgs., works.....lb. .10¾- .14
raw, American, bgs., l.c.l., works.. lb. .05¾- .10¾
Italian type, bbls., works.....lb. .11¾- .12¾
Umber, burnt, American, c.l., bbls., works..lb. .05 - —
l.c.l., bgs., works.....lb. .05¼- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y..lb. .05½- —
l.c.l., works.....lb. .05½- —
raw, American, bgs., same basis. lb. .05¼- .05½
Turkey type, bgs., same basis. lb. .05½- .05¾
Vandyke, bbls., works.....lb. .10 - .11
Brucine, cns., 100 ozs.....oz. .40 - .50
Sulphate, cns., 100 ozs.....oz. .40 - .45
Bryonia root, bls.....lb. .45 - .50
Buchu leaves, bls.....lb. 1.00 - 1.05
Buckthorn bark, bls.....lb. .34 - .35
cut and sifted, bbls.....lb. .40 - .42
Berries, bgs. .....lb. 1.00 - 1.10
Burdock root, bls.....lb. .35 - .36
Butane, indust., tanks, group 3....gal. .05½- —
Butyl acetate, normal, ferment, frt., ind., prod., dms., c.l., works, frt. alld. E. of Miss..lb. .33½- —
l.c.l., same basis.....lb. .34½- —
tanks, same basis.....lb. .32 - —
tankwagons, same basis....lb. .32½- —
other production, dms., c.l., same basis..lb. .33½- —
l.c.l., same basis.....lb. .34½- —
tanks, same basis.....lb. .32 - —
synthetic, dms., c.l., same basis. lb. .18½- —
l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .17 - —
Normal butyl acetate, W. of Miss., ½c. per lb. higher.
secondary, dms., c.l., dlvd. E. or Miss..lb. .14½- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Alcohol (see Alcohol, butyl).
Aldehyde, dms., c.l., works.....lb. .20½- —
l.c.l., works .....lb. .21½- —
tanks, works .....lb. .19½- —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies..lb. .46½- —
l.c.l., same basis.....lb. .47½- —
tanks, same basis.....lb. .45 - —
Laurate, dms., works.....lb. .42 - —
Methacrylate, M-4, dms., works..lb. .60 - —
cns., works .....lb. .63 - .67
P-4, cns., works.....lb. .65 - —
Myristate, dms., works.....lb. No prices.
Oleate, ref., dms., l.c.l., works....lb. .52 - —
Phenylacetate, dms. .....lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate).
Propionate, dms., dlvd.....lb. No stocks
tanks, dlvd. .....lb. No stocks
Stearate, dms., c.l., frt. alld. E. of Rockies..lb. .53½- —
l.c.l., same basis.....lb. .54½- —
Butyl-isobutyl methacrylate, P-5, 50/50, cns., works..lb. .60 - —
Butyric ether (see Ethyl butyrate).

C

Cadmium bromide, jars.....lb. 1.66 - 1.91
iodide, cns. .....lb. 4.89 - 4.90
Lithopone (see Yellow).
Metal, ingots or sticks, cs., dlvd..lb. 1.75 - 1.80
patent shapes, cs., dlvd.....lb. 1.75 - 1.90
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, cryst., dms., 100 lbs. or more. lb. 4.75 - 8.00
anhydrous, dms., 100 lbs. or more. lb. 5.00 - —
Citrated, dms., 100 lbs. or more....lb. 3.00 - —
Hydrobromide, bots. .....lb. 6.50 - —
Calabar beans, bgs., futures.....lb. .65 - .66
Calamus root, dom., bls.....lb. .35 - .40
bleached, imported, bls.....lb. .70 - .80

Calciferol, cryst., vials, 10,000 or more standard units (1 standard unit=1,000,000 USP units), works..gram. 4.00 - —
1,000 to 10,000 s.u., works..gram. 4.40 - —
less than 1,000 s.u., works..gram. 4.80 - —
in edible oil, dms., 10,000 or more... .10 - —
1,000 to 10,000 s.u., works....unit. .11 - —
less than 1,000 s.u., works..unit. .12 - —
Calcium acetate, bgs. dlvd....100 lbs. 3.00 - 4.00
Arsenate, dealers, dms., c.l., whse., works, frt. alld..lb. .09½- —
l.c.l., same basis.....lb. .10½- .11½
Bromide, NF, jars.....lb. .75 - .85
Carbide, dms., c.l., works.....ton.70.00 -90.00
delivered .....ton.102.00 -109.00
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars. lb. .23 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald..ton.22.00 - —
l.c.l., same basis.....ton.32.00 -61.00
liquor, works, basis 40%, tankcars, ton. 9.00 - —
solid, 73-75%, dms., c.l., works, same basis..ton.20.00 - —
l.c.l., works, same basis..ton.30.00 -50.00
Cyanide, dms., dlvd. E. of Rockies.lb. .25 - .40
Gluconate, AA, bbls.....lb. .65 - .72
cns. .....lb. .83 - .90
USP, bbls.....lb. .58 - .63
cns. .....lb. .76 - .83
Hydride, dms., works.....lb. .90 - —
Glycerophosphate, NF, fib. dms...lb. 1.65 - 1.80
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies..dm.24.00 -28.50
cans, cased (45 lbs.) same basis..cs.19.75 -21.50
Iodide, jars.....lb. 4.12 - —
Lactate, USP, dms.....lb. .34 - .41
Laurate, bbls.....lb. .43 - .44
Mandelate, USP, dms., works.....lb. 2.35 - 2.60
Naphthenate, 5% Ca, dms.....lb. .27 - —
Pantothenate, dex., jars.....kilo.75.00 - —

Calcium phosphate, feeding grade, bgs., works..ton.75.50 - —
food grade, bbls., 10 or over, works. lb. .07 - .07¾
less than 10, works.....lb. .08 - .10
medicinal, dibasic, bbls.....lb. .13 - .18
monobasic, cryst., bgs., c.l., works, frt. equald..lb. .06½- —
l.c.l., same basis.....lb. .06¾- —
tribasic, bbls., c.l., works.....lb. .0650 - .0680
bgs., l.c.l., works.....lb. .0685 - .0730
Phytate, bgs., works.....lb. .22 - —
Resinate, precip., 6.8% Ca, dms..lb. .20 - —
Silicate, hydrated, bgs., c.l., works. .05½- —
l.c.l., works .....lb. .06 - —
Stearate, precip., cns., c.l., works, lb. .48 - —
l.c.l., works.....lb. .49 - .50
Sulphate (see Gypsum).
Sulphide, 76%, bgs., c.l., works..ton.45.00 - —
70%, bgs., c.l., works.....ton.50.00 - —
luminous tins, works.....lb. 1.25 - —
Sulphocarbolate, bbls., dms.....lb. .59 - .60
Calcium-strontium sulphide, phosphorescent, dms., works.....lb. 1.06 - 1.50
fine particle size, works.....lb. 1.50 - 1.75
Calendula flowers, bls.....lb. .90 - 1.00
Calomel, USP, cryst., dms.....lb. 1.82 - 1.83
fine powd., dms.....lb. 1.97 - 1.98
Camphor, monobromated, dms.....lb. 3.20 - —
Camphor, natural .....lb. No stocks.
synth., tech., bbls., 2,000 lbs. or more, works..lb. .42 - —
10 bbls. (1,500 lbs.).....lb. .44½- —
smaller lots .....lb. .45 - .53
USP, gran., powd., bbls., 2,000-lb lots..lb. .66 - —
1,000-lb. lots .....lb. .67 - —
smaller lots .....lb. .68 - —
tablets, tins, 2,000-lb. lots....lb. .83 - —
1,000-lb. lots .....lb. .84 - —
smaller lots .....lb. .85 - —

Canada balsam (see Fir balsam).
Cantharides, Chincse, cs.....lb. 1.80 - 1.85
powd., bxs.....lb. 2.05 - 2.10
Russian, bgs. .....lb. 7.00 - 7.25
powd., bxs .....lb. 7.25 - 7.50
Capsicum (see Pepper, red).
Oleoresin, NF VIII, cns.....lb. 6.50 - 6.75
Caramel coloring, bbls.....gal. 1.25 - —
Caraway seed, Danish, bgs.....lb. .17 - .17½
Dutch, bgs.....lb. .17 - .17½
futures, new crop, bgs.....lb. .16¾- .17¼
Carbazole, 97%, dms., ton lots, works. lb. 1.10 - 1.30
smaller lots, works.....lb. 1.20 - —
Carbinol butyl, norm., dms., l.c.l., works..lb. .42 - —
secondary, dms. l.c.l., works..lb. .70 - —
Isobutyl, dms., c.., works.....lb. .51 - —
l.c.l., works.....lb. .52 - —
tanks, works.....lb. .50 - —
Methylisobutyl, dms., c.l., frt. alld. E..lb. .14½- —
l.c.l., same basis.....lb. .15 - —
tanks, same basis.....lb. .13 - —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld. to competitive points..lb. .05¾- —
l.c.l., same basis.....lb. .06¾- —
5-gal. dms., c.l., same basis....lb. .07¾- —
l.c.l., same basis.....lb. .08¾- —
Dioxide, cyls. .....lb. .06 - .08
Tetrachloride, CP, dms., c.l.....lb. .11 - —
l.c.l. ... .lb. .11½- —
tech., dms., zone 1, c.l., frt. alld.lb. .07 - —
l.c.l., frt. alld.....lb. .07½- —
zone 2, c.l., frt. alld.....lb. .07½- —
l.c.l., frt. alld.....lb. .08½- —
zone 3, c.l., frt. alld.....lb. .08 - —
l.c.l., frt. alld.....lb. .09½- —
zone 4, c.l., frt. alld.....lb. .07½- —
l.c.l., frt. alld.....lb. .08 - —

ASPIRIN USP

RESORCIN USP Recrystallized

GLUCOSE 45° Bé

MAGNESIUM OXIDE Heavy

FORMIC ACID 90%

SODIUM SULPHIDE

TRICHLORETHYLENE

BLEACHING POWDER 70%

DIRECT BLACK

ANILINE OIL

SULPHUR BLACK

PHOSPHORIC ACID 85%

CHROME ORANGE, C.P.

ATABRINE TABLETS

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THE RUFERT CHEMICAL CO.
Seymour, Conn.

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CHEMICALS CORPORATION

420 LEXINGTON AVENUE
NEW YORK 17, N. Y. Phone: LE 2-9740

Carbon Tetrachloride, USP—Codeine

Carbon tetrachloride, USP, cbys....lb. .17 - .19
Carbon tetrachloride sales zones are:—1, Conn., Del., Ill., Ind., Ia., Me., Mass., Md., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., O., Pa., R. I., Tenn., Va., W. Va., Wis., and river cities of Burlington, Ia., and Kansas City, Kans.; 2, Ala., Ark., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D.; 3, Colo., N. Mex., Tex., and Montana points E. of Billings; 4, Ariz., Cal., Idaho, Nev., Ore., Utah, Wash. and Montana points W. of Billings. Zone 4 prices are f.o.b. cars, L. A., Calif., S. F., Calif., Portland, Ore., and Seattle, Wash.

Cardamom fruit, bleached, bold, cs..lb. 1.80 - 1.85
medium, cs.....lb. 1.40 - 1.45
decorticated, Guatemalan, cs.....lb. 1.10 - 1.15
Indian, cs.....lb. 1.10 - 1.15
green, Alleppey, bgs.....lb. 1.15 - 1.20
Seed (see Cardamom fruit, decorticated)

Carotene, cryst., research grade tins, works..gram. 5.00 - —
in vegetable oil (alpha, 10%, beta, 90%), amps., 100 grams, dlvd, gram. 2.85 - —
50 grams, dlvd.....gram. 2.90 - —
tech., tins, works.....lb 67½- —
diluted, dry powd., 3,330 A units per gm., bots., works..lb. 70 - —
vegetable oil, 250,000 A units per gm., bots., works..lb. 37.80 - —
50,000 A units per gm., bots., works..lb. 7.87 - —
5,330 A units, per gm., bots., works..lb. .85 - —

Carvol, bots.....lb. 13.00 -16.00
Cascara sagrada bark, bulk.....lb. .40 - .43

Case-hardening mixture, 30% gran., dms., l.c.l., dlvd..lb. .69½- —
Casein, dom., acid-precip., bgs., 10,000 lbs. or more, subj't point..lb. .33 - .35
rennet-precip., 10,000 lbs or more same basis..lb. .34 Nom.
Imp., acid-precip., ground, bgs., 100 bgs. or more..lb. .31 - .33
rennet precip., unground, 100 bgs. or more lb. .36 Nom.
smaller lots .....lb. .37 Nom.
Cassia bark, Batavia, No. 1, short-stick, bls lb. .60 Nom.
broken, bls.....lb. .18 - 18½
thinquill, bls .....lb. .60 Nom
China, rolls, select, cs.....lb. .11½- .12
broken, bls.....lb .07½- .08
Kwangsi, broken, bls.....lb. .12 - .12½
Saigon, broken, bls.....lb. .37 - .37½
medium, bls.....lb. .42 - .42½
thin, bls.....lb. .44 - .44½
Yunnan, bls.....lb. 13½- .14
Buds, China, bgs.....lb. .22 - .22½
Cassia fistula, bskts.....lb. 26 - 28
Castor beans, bgs., Brazilian ports..
long ton.200.00 - —

Oil (see Oil, castor).
Pomace, bgs., c.l., works.....ton.40.00 - —
Castoreum, nat., cns.....lb.39.00 - —
Catechol, CP, cryst., works, fib. dms.lb 2.00 - —
resublimed, works, dms.....lb. 3.25 - —
Catnep, bls.....lb 68 - 70
Celery seed, French, bgs., futures..lb. .30 - .31
Indian, bgs.....lb. .25½- .26
futures, bgs.....lb. .25½- .26

Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. .36 - —
granules, ctns., same basis.....lb. .42 - —
molding composition, plain colors, pearls, special black, dms., c.l., frt. alld..lb. .47 - —
l.c.l., same basis.....lb. .49 - .54
regular black, dms., l.c.l., same basis..lb. .35 - .39
variegations, dms., l.c.l., same basis..lb. .54 - .59
Acetate-butyrate, flake, 17% butyryl content, ctns., 500 lbs. and over, works..lb. .52 - —
less than 500 lbs., works..lb. .53 - —
17.5% butyryl content, ctns., 500 lbs. and over, works..lb. .49 - —
less than 500 lbs., works..lb. .50 - —
26.5% butyryl content, ctns., 500 lbs. and over, works..lb. .53 - —
less than 500 lbs., works..lb. .54 - —
gran., 37% butyryl content, ctns., 500 lbs. and over, works, lb. .51 - .57
less than 500 lbs., works..lb. .52 - .58
48% butyryl content, ctns., 500 lbs. and over, works..lb. .57 - —
less than 500 lbs., works..lb. .58 - —
molding composition, plain colors, pearls, special black, dms., l.c.l., frt. alld..lb. .56 - .61
regular black, dms., l.c.l., same basis..lb. .47 - .51
variegations, dms., l.c.l., same basis..lb. .61 - .66
Triacetate, flake, ctns., works, frt. alld. on 100 lbs. or more..lb. 40 - —

Cerium hydrate, dms., works.....lb. 1.25 - —
Oxalate, NF, bbls., kgs., works..lb. .70 - .72
Oxide, optical grade, bgs., under 100 lbs., works..lb. 2.25 - —
kgs., 100-lb. lots, works.....lb. 1.75 - —
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works..lb. .02¾- .05½
l.c.l., ex whse.....lb. 04 - —
paint, bgs., c.l., works.....ton.40.00 - —
papermakers, bgs., c.l., works.ton.32.50 -40.00
rubber makers, bgs., c.l., works..
ton.30.00 - —
Chamomile, Hungarian type, cs...lb. 65 - .70
Roman, bls., futures.....lb. 1.50 - 1.75
Charcoal, hardwood, briquets, bulk, c.l., works..ton.49.50 - —
bgs., c.l., works.....ton.54.50 -55.50
granular, bgs., incl., c.l., works, ton.50.50 - —
lump, bulk, c.l., works.....ton.39.50 -45.50
bgs., extra, returnable, c.l., works..ton.42.50 -45.50
screenings, bgs., works.....ton.33.50 - —
Pinewood, gran., powd., bgs., c.l., works, South..ton.40.00 - —
l.c.l., works .....ton.50.00 -60.00
lump, bgs., c.l., works, South..ton.35.00 - —
Willow, powd., bbls.....lb. 06 - .07
Chestnut extract, powd., 65% tannin, bgs., extra, c.l., works..lb. .1040- —
l.c.l., works.....lb. .1115- —
solid, 25% tannin, bbls., c.l., works, lb. .0430- —
l.c.l., works.....lb. .0460- —
tanks, works.....lb. .0375- —
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l., works..ton.12.50 -13.00
l.c.l., works .....ton.13.50 -14.00
bulk, c.l., works.....ton. 9.50 -10.00
90% 200 mesh, bgs., c.l., works..ton.10.00 -12.00
l.c.l., works.....ton.11.00 -16.00
wet-grd., silk-bolt, 99½% 325 mesh, bulk, c.l., works..ton.13.00 - —
paper bgs., c.l., works..ton.15.00 - —
Imported, white lump, bulk, c.l., ex dock Balto., Boston, Norfolk, Phila..net ton.16.00 -35.00
powd., bgs., c.l., ex dock.....ton.45.00 - —
l.c.l., ex whse.....ton.50.00 -55.00
Chloral, dms., works.....lb. .45 - .50
Hydrate, jars.....lb. .93 - .98
Chlordane, agricultural, dms., c.l., frt. alld..lb. 1.50 - —
l.c.l., frt. alld.....lb. 1.55 - 1.70
refined, dms., c.l., frt. alld.....lb. 1.65 - —
l.c.l., frt. alld.....lb. 1.70 - 1.85
technical, cns., c.l., works.....lb. 1.55 - —
l.c.l., works.....lb. 1.60 - 1.80
Chlorinated rubber, standard, ctns., 100 lbs. up, works..lb. .40 - —
smaller lots, works.....lb. .43 - —
Chlorine, liquid, cyls., c.l., works..lb. .07 - .12
l.c.l., stock points.....lb. .09 - .15½
tanks, single units, works, frt. equald..100 lbs. 2.25 - —
multiple units, 3 cars, works, frt. equald..100 lbs. 2.55 - —
2 cars, same basis....100 lbs. 3.15 - —
1 car, same basis.....100 lbs. 3.75 - —
Chloroform, tech., dms.....lb. .20 - .23
USP, dms.....lb. .30 - .33
Chloro-orthotoluidine (Red KB base), bbls..lb. 1.38 - —
Chloropicrin, com'l, bots., ex whse..lb. 1.25 - —
cyls., 180-lbs., works, frt. alld..lb. .80 - —
100-lbs., same basis.....lb. .82 - —
25-lbs., ex whse.....lb. 1.00 - —
Cholesterol, USP, fib. dms., 100-lb. lots,
lb.12.00 -14.38
jars, dms., smaller lots.....lb.14.75 -15.75
Choline chloride, fib dms., works..lb. 3.00 - 3.10
feed grade, fib. dms., works....lb. 2.20 - —
Dihydrogen citrate, fib. dms., works, lb. 3.00 - 3.10
Chrome acetate, powd., 72% Cr., bbls., works..lb. No stocks
solut., 7½%, bbls., cs.....lb. .09¼- —
8½%, bbls., cs.....lb. .09¾- —
Cake, bulk, c.l., works.....ton.16.00 - —
Fluoride, bbls., works.....lb. .24 - .27
Green (see Green, chrome).
Oxide (see Green, chrome oxide).
Oleate, bbls.....lb. .54 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, bots.....lb. 6.02 - 8.00
Cinchona bark, USP, red, quill, 30-in., cs..lb. 1.26 Nom.
yellow, broken, bgs.....lb. .35 - .40
Cinchonidine, small cryst., cns., 100 ozs..oz. .35 - —
Cinchonine, large cryst., cns., 100 ozs., oz. .69 - —
small cryst., cns., 100 ozs.....oz. .65 - —
Sulphate, NF, cns., 100 ozs.....oz. .42 - —
Cinchophen, NF, heavy, dms., works, lb. 4.20 - 4.30
standard, dms., works.....lb. 4.00 - 4.10
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, cbys., cns., dms.....lb. .82 - 1.25
Cinnamon, Ceylon, No. 2, bls.....lb. .31 - .32
due soon .....lb. .29 - .30
Citral, bots., cns.....lb. 3.90 - 6.00
Citronellal, bots., dms.....lb. 2.75 - —
Citronellol, bots., dms.....lb. 3.85 - 4.75
Cloves, Madagascar, bls.....lb. 13½- .14
futures, bls.....lb. .12 - .12½
Zanzibar, bls. .....lb. .16 - .16½
Clover tops, red, dom., bgs.....lb. .65 - .70
imported, bgs. .....lb. No stocks.
Coaltar coal-gas, water-gas, crude, dms., c.l., works..dm.10.60 - —
l.c.l., works.....dm.11.10 - —
tanks, works.....gal. .14 - —
refd., bbls., c.l., works.....bbl.11.10 - —
l.c.l., works.....bbl.11.60 - —
tanks, works.....gal. .15 - —
Cobalt acetate, bbls., kgs., dlvd..lb. .83¾- —
Carbonate, powd., bgs., works....lb. 1.58 - —
feed grade, 49½% Co, kgs.....lb. 1.58 - —
Chloride, kgs., works.....lb. .87½- —
feed grade, 24.5% Co, kgs.....lb. 1.25 - —
Hydrate, bbls. .....lb. 2.04 - —
feed grade, 62% Co, kgs.....lb. 2.04 - —
Linoleate, paste, 6% Co, dms....lb. .66¾- —
solid 8½% Co, dms.....lb. .68½- —
8% Co, dms.....lb. .65½- —
Naphthenate, solid, 6% Co, dms..lb. .85½- —
Nitrate, feed grade, 20.4% Co, bbls, lb. .75¾- —
Oleate, bbls. .....lb. .44 Nom.
Oxide, black, kgs.....lb. 1.27½- 1.80
Phosphate feed grade, 34% Co, kgs, lb. 1.26½- —
Resinate, precip., 7.5% Co, dms...lb. .38½- —
Sulphate, dms. .....lb. .65 - —
feed grade, 21% Co, kgs.....lb. 1.00 - —
Cobalt salts, feed grade quotations are f.o.b. Phila., Cleve. or N. Y.
Cobalt-ammonium sulphate, 14% Co, kgs..lb. .75 - —
Cocaine hydrochloride, cns., 100-oz. lots..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .67 - .68
silver, Teneriffe, bgs.....lb. .69 - .70
Cocoa butter, bgs.....lb. 1.30 Nom.
Cocillana bark, bgs.....lb. .20 - .22
Codeine, cns., 100 ozs.....oz.13.25 - —
Hydrochloride, crs., 100 ozs.....oz.11.85 - —
Phosphate, cns., 100 ozs.....oz.10.25 - —
Sulphate, cns., 100 ozs.....oz.10.75 - —

Fantastic as it seems, the effective *ads*orbent surfaces of a pound of activated carbon are actually equal in area to about 125 acres.

We don't pretend to know how this can be possible, but our research men, who understand such things, have figured it out scientifically. We like to think of *what* it does rather than *how* it does it.

For example, when used to isolate streptomycin from the mold liquor in which it is produced, a *Pittsburgh* activated carbon, tailor-made for this purpose and with greater adsorptive capacity, assisted materially in the rapid development of a process with a capacity sufficient to permit removal of the "wonder drug" from the government's critical list. Soon streptomycin may be as available as penicillin.

Less dramatically, but like the producer of streptomycin, a manufacturer of water purification systems for homes, institutions, and industries tested every available adsorbent and then selected a *Pittsburgh* activated carbon which was specifically designed to meet the exacting requirements of his purification systems.

If your "problem" involves the use of an adsorbent, in gas or liquid phase, for purification, solvent recovery, decolorization, deodorization, fractionation, isolation, catalysis or air conditioning, you should investigate the adaptability of activated carbon to your processes. *Pittsburgh* activated carbon is produced in the types and grades usually required, or a special type can be developed for your specific need. Your inquiries are invited. Write for latest price list.

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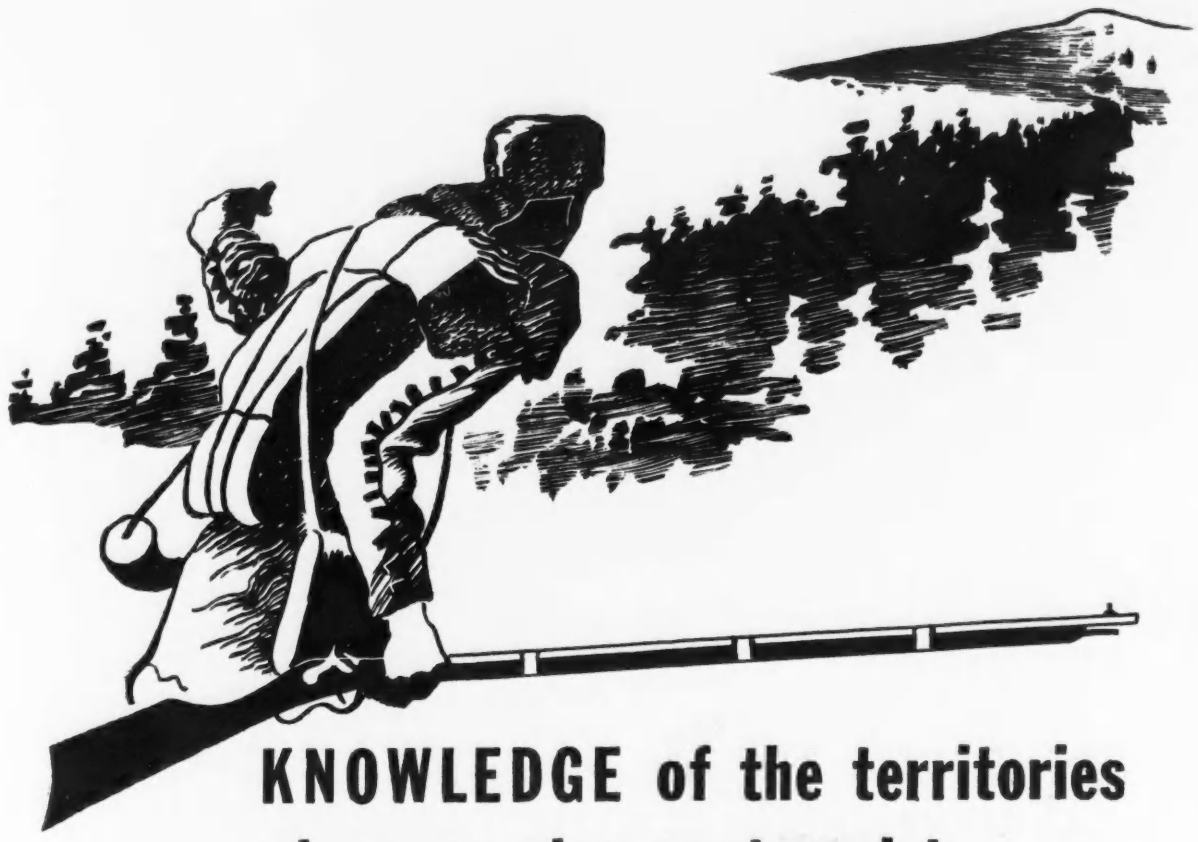

KNOWLEDGE of the territories where no sign posts exist

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ACETIC ANHYDRIDE • ALUMINA HYDRATE • ALUMINUM HYDROXIDE U.S.P.
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BENZENE HEXACHLORIDE • BENZOYL PEROXIDE • BLANC FIXE • CARBON TETRACHLORIDE
CARBON BISULPHIDE • CAUSTIC POTASH • CAUSTIC SODA • CITRIC ACID
CALCIUM CITRATE • CREAM OF TARTAR • D D T • EPSOM SALT • LECITHIN
LITHIUM SALTS • PHOSPHORIC ACID • PHOSPHOROUS (RED AMORPHOUS)
ROCHELLE SALT • SAPONIN • SODIUM SULPHIDE • SODA ASH
TARTARIC ACID • TARTAR EMETIC • VANILLIN

Codliver Oil—Dillseed

Codliver oil (see Oil, codliver).
Cohosh black, root, bls. lb. 18 - .19
Blue, bls. lb. 21 - .23
Colchicum seed, bgs. lb. 4.00 Nom.
Colchicine, bots., cns. oz. No stocks
Collodion, USP, dms. lb. 24 - .29
Flexible, USP dms. lb. .25½ - .30½
Colocynth pulp, bls. lb. .50 - .52
Colombo root, bls. lb. .16 - .17
Coltsfoot leaves, bgs. lb. .43 - .44
Condurango bark, bgs., futures. lb. .23 - .24
Copaiba balsam, cns., dms. lb. .70 - .80
Copper acetate, cupric, bbls., works lb. .28 - —
smaller containers, works lb. .29 - .30
Carbonate, 52.54%, bbls. lb. .24 - .26
Chloride, anhyd., bbls. lb. .27 - —
crystals, bbls. lb. .18½ - —
Cyanide, tech., bbls. lb. .43 - —
Hydrate, dms., del E Miss lb. 26¼ - 26¾
tribasic, dealers, bgs., works, c.l. lb. .21½ - 22½
l.c.l., works lb. 22 - 23½
Metal, electrolytic lb. 21½ - —
Naphthenate, liquid, 8% Cu, dms., dlvd lb. 27 - —
solid, 11% Cu, dms., dlvd lb. 27½ - —
Nitrate, tech., cryst., bbls., works, lb. 25 - 28
Oleate, liquid, 8.5% Cu, bbls. lb. .35½ - —
solid, 10% Cu, bbls. lb. .48½ - —
12.5% Cu, bbls. lb. .47½ - —
Oxide, black, bbls., works lb. 28 - .30
red, com'l, bbls., works lb. .30 - .32¼
Oxychloride-sulphate, bgs. lb. 24 - —
Resinate, precip., 8.5% Cu, dms. lb. 21½ - —
Stearate, bgs., works lb. .30½ - —
Sulphate, cryst., 99%, bgs., c.l. works, 100 lbs. 7.60 —
l.c.l. 100 lbs. 7.85 - 8.60

Copper sulphate, monohydrated, 35%, dms., c.l., dlvd. 100 lbs. 12.55 -12.80
l.c.l., dlvd. 100 lbs. 13.55 - —
Copperas, cryst., gran., bgs., c.l., works. ton. 17.00 - —
l.c.l., works. 100 lbs. 1.55 - 2.00
bbls., c.l., works. ton. 20.00 - —
bulk, c.l., works. ton. 14.00 - —
Copra, c.i.f., Pacific ports. ton. 270.00 Nom.
Atlantic or Gulf ports. ton. 276.00 Nom.
Coriander seed, Argentine, bgs, futures. lb. .08 - 08¼
Indian, bgs. lb. No stocks
Italian, bgs. lb. .08½ - .09
Moroccan, bgs., futures. lb. 09 - .09¼
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 6.93 - —
bbls., c.l., same basis. 100 lbs. 6.98 - —
Syrup, 42°, bbls., c.l. 100 lbs. 7.29 - —
l.c.l. 100 lbs. 7.44 - —
Cornsilk, bls. lb. .23 - .25
Corrosive sublimate, NF, cryst., dms., 50 lbs. or more. lb. 1.68 - —
gran., powd., dms., 50 lbs. or more. lb. 1.53 - —
Cottonroot bark, bls. lb. .40 - .45
Cottonseed hull ash, 32-36% potash, bgs., dlvd. unit-ton. 1.50 Nom.
Meal, 41% protein sacked, c.l. mills, S. E. ton. 94.00 -96.00
Coumarin, cns., 25 lbs. lb. 2.75 - 3.00
smaller lots. lb. 2.90 - 3.30
Cramp bark, NF, bls. lb. .80 - .85
Cream of tartar, dom., USP, gran. or powd., bbls., 5,000 lbs. one shipt. lb. .35½ - —
bbls., kgs., smaller lots. lb. .36 - .36½

Creosote, beechwood, bots., cbys. lb. 1.05 - 1.10
Coaltar, crude, tanks, works. gal. .21½ - —
refined, dms., c.l., works. gal. .38½ - —
l.c.l., same basis. gal. .39 - —
tanks, same basis. gal. .25 - —
solution, 80%, tanks, works. gal. .30 - —
Hardwood, N. F., bots., cbys. lb. .80 - .85
Finewood, dms. gal. .31 - .32
Carbonate, bots., cbys. lb. 2.30 - 2.40
Cresol, tech., dms., c.l., works, frt. equald. lb. .17 - .17¼
tanks, same basis. lb. .16½ - .17¾
USP, dms., c.l., same basis. lb. .17½ - —
l.c.l., same basis. lb. .17¾ - —
tanks, same basis. lb. .16½ - .17
Crotonaldehyde, 91-93% dms., 55 and 110 gals., l.c.l., works. lb. .16¾ - .17
5 and 10-gals., l.c.l., works. lb. .22 - —
Cryolite, nat., dealers, bgs., bbls., c.l., works. 100 lbs. 12.75 - —
bbls., l.c.l., works. 100 lbs. 13.75 -14.75
Cube root, 5% rotenone, bbls., works. lb. .40 - .45
4% rotenone, bbls., works. lb. .32 - .36
Cubeb berries, XX, bgs. lb. .60 - .65
powd., cs. lb. .70 - .75
Culvers root, bbls. lb. .60 - .65
Cumin seed, Cyprian, bgs. lb. No stocks
Indian, bgs, futures. lb. .40 - .41
Italian, bgs. lb. .08½ - .09
Moroccan, bgs. lb. No stocks
Persian, bgs. lb. .24¾ - .25
Syrian, bgs. lb. .24½ - .25
Cutch, 65% tannin, bgs., ex dock. lb. .12 Nom.
Cyanamide, fertilizer mixing grades, 20.6% N., gran., bulk, Niagara Falls, Ont., contracts, bulk. unit-ton. 2.55 - —
pulv., 21% N., bgs., same basis. unit-ton. 2.45 - —
Cyclohexane, tech., dms., c.l., works. lb. .09½ - —
l.c.l., works. lb. .10 - —
tanks, works. lb. .08 - —

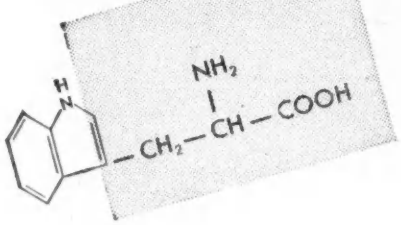
Cyclohexanol, tech., dms., c.l., works. lb. .21½ - —
l.c.l., works lb. .22 - —
tanks, works lb. .20 - —
Cyclohexanone, tech., dms., c.l., works. lb. .26½ - .30
l.c.l., works lb. .27 - .31
tanks, works lb. .25 - .29
Cyclohexylamine, dms., works lb. .32 - —
Cyclopropane, USP, cyls., dlvd. gal. .27 - —

D

Damiana leaves, bls. lb. .85 - .90
Dandelion root, bls. lb. .67 - —
DDT, fiber, dms., c.l., works. lb. .31 - —
ton lots, works lb. .33½ - —
dms., smaller lots lb. .30½ - —
Decanol, normal, tech., dms., dlvd. lb. .35 - —
Deertongue leaves, bls. lb. .35 - .40
Defluorinated phosphate, 65% b.p.l., paper bgs., Columbus, Ga. ton. 39.25 - —
Texarkana, Ark. ton. 41.00 - —
Tupelo, Miss. ton. 39.25 - —
Wales, Tenn. ton. 39.25 - —
Rock, paper bgs., works. ton. 34.25 - —
Degras, common, bbls. lb. .10 - .12
Neutral, less 2% ffa., bbls. lb. .20 - .21
over 2% ffa., bbls. lb. .19 - .20
Derris root (see Cube root).
Dextrin, British gum, bgs., c.l. 100 lbs. 8.59 - —
Chicago 100 lbs. 8.04 - —
l.c.l. 100 lbs. 8.47 - —
Corn, Canary, bgs., c.l. 100 lbs. 8.33 - —
Chicago 100 lbs. 7.74 - —
l.c.l. 100 lbs. 8.48 - —
dark, bgs., c.l. 100 lbs. 8.43 - —
Chicago 100 lbs. 7.89 - —
l.c.l. 100 lbs. 8.58 - —
white, bgs., c.l. 100 lbs. 8.18 - —
Chicago 100 lbs. 7.64 - —
l.c.l. 100 lbs. 8.33 - —
Above prices are for dextrin in paper bgs.; cotton bgs., 17c higher.
Potato, dom., bgs. lb. 16 - 16¼
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots. lb. 5.20 - 5.55
laboratory grade, bots. 100 grams 4.50 - —
tech., bots., works lb. 3.00 - —
Diamyl ether (see Ether, amyl).
Phthalate, dms., tanks lb. No prices
Dianisidin, dms. lb. 1.54 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast. ton. 50.00 -52.00
California ton. 38.00 -40.00
l.c.l., ex whse. ton. 80.00 - —
purified, bgs., c.l., Atlantic coast. ton. 62.00 - —
California ton. 56.00 - —
l.c.l., ex whse ton. 90.00 - —
imported, Algerian, bgs., c.l., Atlantic coast ton No prices
Mexican, white, bgs., c.l., Atlantic coast. lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibutyl phthalate, dms., c.l. lb. .37½ - .38¼
l.c.l. lb. .38 - .39
tanks lb. .36 - .37
Sebacate, dms., c.l., works lb. .78¾ - —
l.c.l., works lb. .79¾ - —
tanks, works lb. .77¾ - —
Tartrate, dms., wks., frt. allo. lb. .92 - 1.02
Dibutylamine, dms., c.l., works. lb. .52½ - —
l.c.l., works lb. .53½ - —
tanks, works lb. .50 - —
Dichlorcanilin, dms., works lb. .65 - —
Dichlorodiphenyldichloroethane, fib dms., c.l., works. lb. .42½ - —
ton lots, works lb. .45 - —
tins, small lots, works lb. .48 - .50
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichlorophenol, dms., frt. equald lb. .26 - —
Dicyclohexylamine, dms., works lb. .38 - —
Dicyclohexylphthalate, fib dms., c.l., works lb. .42½ - —
l.c.l., same basis lb. .43 - —
Diethanolamine, dms., c.l., frt. alld. E lb. .25 - —
l.c.l., same basis lb. .26 - —
smaller containers same basis lb. .29 - —
tanks same basis lb. .23½ - —
Diethyl carbonate, dms., l.c.l. lb. .46½ - —
Oxalate, dms., c.l. lb. .35½ - —
l.c.l. lb. .36½ - —
tanks lb. .34 - —
Phthalate, dms., c.l., frt. equald. lb. .51½ - .53⅝
dms., l.c.l., frt. equald. lb. .52½ - .54
tanks, frt. equald. lb. .50 - .52
Sulphate, dms., c.l., works. lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Diethylamine, dms., c.l., works. lb. .69 - —
l.c.l., works lb. .71 - —
tanks, works lb. .65 - —
Diethylaminoethanol, dms., l.c.l., works frt. alld. E. of Miss. lb. .75 - —
Diethylanilin, dms. lb. .48 - —
Diethyleneglycol, dms., c.l., frt. alld. E. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½ - —
Diethylether, dms., works lb. .40 - —
Monobutylether, dms., c.l., works, lb. .22 - —
l.c.l., works lb. .23 - —
tanks, works lb. .21 - —
Diethyleneglycol monobutylether acetate, dms., c.l., works lb. .27½ - —
l.c.l., works lb. .28½ - —
tanks, works lb. .26½ - —
Monoethylether, dms., c.l., works lb. .17 - —
l.c.l., works lb. .18 - —
tanks, works lb. .16 - —
Monoethylether acetate, dms., c.l., works. lb. .25½ - —
l.c.l., works lb. .26½ - —
Monomethylether, dms., c.l., works, lb. .21½ - —
l.c.l. lb. .22½ - —
tanks lb. .20½ - —
Monomethylether acetate, dms., c.l., works, lb. .24½ - —
l.c.l., works lb. .25½ - —
Diethylenetriamine, tanks, works. lb. .50 - —
Diethylstilbestrol, bots. kilo. 320.00 - —
Digitalin, cryst., bots. gram. 18.00 -19.00
powd., bots. gram. 1.25 - 1.75
Digitalis leaves, dms. lb. 1.05 - 1.15
Diglycol laurate, dms. lb. .33 - —
Oleate, light, bbls., c.l. lb. .38 - —
Stearate, bbls., c. lb. .40 - —
Dihydroxydichlorodiphenylmethane, dms. lb. .95 - 1.00
smaller containers lb. 1.05 - 1.40
Di-isobutyl ketone, dms., works. lb. .19 - —
Di-isobutylene, dms., c.l., works. lb. .07 - —
l.c.l., works lb. .07½ - —
tanks, works lb. .05½ - —
Dillseed, decorticated, bgs. lb. 10 Nom.
dewhiskered, cgs. lb. 12 - .12½

Another important development from Dow's program of continuing research

DL-Tryptophan



ALSO AVAILABLE ARE:

DL-Leucine
DL-Methionine
DL-Phenylalanine
DL-Isoleucine
(with DL-Alloisoleucine)
DL-Valine

Recent reductions in the consumer cost of DL-Tryptophan have resulted from constant research and attention to manufacturing detail. This high quality material as manufactured by Dow is suitable for supplementing protein hydrolysates as well as for use in other medicinal and nutritional products.

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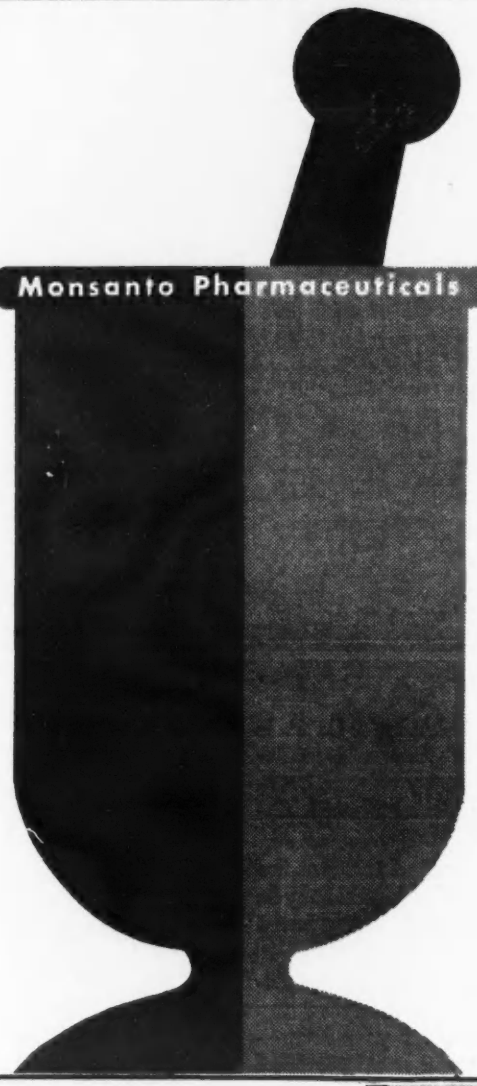
DOW
CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Dimethyl phthalate, dms., c.l., dlvd. lb. .27½ - —
l.c.l., dlvd. .....lb. .28 - —
tanks, dlvd. .....lb. .26 - —
Sebacate, dms., c.l., works.....lb. .91 - —
l.c.l., works .....lb. 91½ -
tanks, works .....lb. .99 - —
Sulphate, ref. 55-gal. dms., c.l., works..lb .15 - —
l.c.l., works .....lb. .16 - —
ref. 10-gal. dms., works.....lb. .16½ - —
Dimethylamine, anhyd., cyl., works, basis 100%..lb. 38½ - +8½
25%-40%, dms. c.l., works, basis 100%..lb. .38 - —
l.c.l., works, basis 100%.....lb. .38½ - —
tanks, works, basis 100% .....lb. .33 - —
Dimethylaniline, dms. c.l. .....lb. .21 - .24¼
l.c.l. .....lb. .22 - —
Dinitroaniline, dms., frt. equald....lb. .50 - —
Dinitrobenzene, bbls. .....lb. .16 - —
Dinitrochlorobenzene dms. .....lb. .14 - 15½
Dinitronaphthalene, kgs. .....lb. .35 - 38
Dinitrophenol, bbls. .....lb. .26½ - —
Dinitrotoluene, oily, dms. .....lb .07 - 07¾
refd., dms .....lb. .18 - —
Dinonylnaphthalene, tanks, works.lb. .15 - —
Dioctyl phthalate, dms., c.l., frt. alld. lb. .42¾ - —
l.c.l., frt. alld.....lb. .43¾ - —
tanks, frt. alld.....lb. .40¾ - —
Diorthotolylguanidin, dms., ton lots, dlvd..lb. .44 - —
smaller lots, dlvd. .....lb. .46 - .47
Dioxan, dms., c.l., frt. alld.....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oils.
Dipentene, dest.-dist., dms., incl., c.l., works, South, gal .45 - .51
l.c.l., same basis.....gal. .46 - .54
N. Y. whse. .....gal. .60 - —
steam-dist., dms., c.l., whse., NYC, gal. .50 - —
l.c.l., same basis.....gal. .53 - .62
Diphenyl, bbls., c.l., works..... lb. .15 - —
l.c.l., works .....lb. .16 - .20
Oxide, perfume grade, cns.....lb. .48 - .61
dms. .....lb. .45 - .56
Diphenylamine bbls. .....lb. .25 - —
Diphenylguanidin, dms., ton lots. lb. .35 - —
smaller lots .....lb. .36 - .37
Divi-divi, 38% tannin, bgs., bls., c.l., U.S. ports, ex dock..ton.61.00 -62.00
Doggrass root, dom., cut, bls.....lb. .27 - .29
imp., N.P., cut, bls.....lb. .35 - .40
Dogwood, Jamaica, bark, bls.....lb. .12 - .14
Dragon's blood, drops, cs.....lb. .45 - .47
moss, cs.....lb. 1.50 - 1.55
reeds, cs..... No stocks
Dyes, coaltar, certified colors for foods, drugs and cosmetics, 1-lb. lots:—
Blue, FD&C, No. 1, cns.....lb.14.85 - —
No. 2, cns.....lb.14.85 - —
Green, FD&C, No. 1, cns.....lb.14.85 - —
No. 2, cns.....lb.19.25 - —
No. 3, cns.....lb.30.25 - —
Orange, FD&C, No. 1, cns.....lb. 3.20 - —
No. 2, cns.....lb. 4.00 - —
Red, FD&C, No. 1, cns.....lb. 6.60 - —
No. 2, cns.....lb. 3.45 - —
No. 3, cns.....lb.19.25 - —
No. 4, cns.....lb. 6.33 - —
No. 32, cns.....lb. 4.55 - —
Yellow, FD&C, No. 1, cns.....lb. 9.35 - —
No. 6, cns.....lb. 3.45 - —
No. 3, cns.....lb. 2.90 - —
No. 4, cns.....lb. 2.90 - —
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots:—
Black, D&C, No. 1, cns .....lb 9.15 - —
Blue, D&C, No. 4, cns .....lb.13.55 - —
Brown, D&C, No. 1, cns.....lb 13.55 - —
Green, D&C, No. 5, cns.....lb.13.55 - —
No. 6, cns.....lb 13.55 - —
Orange, D&C, No. 3, cns.....lb. 9.15 - —
No. 4, cns.....lb 16.85 - —
No. 5, cns.....lb. 4.75 - —
No. 10, cns.....lb.17.40 - —
Red, D&C, No. 8, cns.....lb. 3.10 - —
No. 9, cns.....lb. 3.10 - —
No. 10, cns.....lb. 3.50 - —
No. 11, cns.....lb. 1.85 - —
No. 12, cns.....lb. 2.50 - —
No. 17, cns.....lb. 9.15 - —
No. 18, cns.....lb.20.15 - —
No. 19, cns.....lb.16.85 - —
No. 21, cns.....lb. 3.95 - —
No. 22, cns.....lb. 9.15 - —
No. 28, cns.....lb.20.70 - —
No. 33, cns.....lb.14.65 - —
Violet, D&C, No. 1, cns.....lb.13.55 - —
No. 2, cns.....lb.13.55 - —
Yellow, D&C, No. 7, cns.....lb. 9.15 - —
No. 8, cns.....lb. 9.15 - —
No. 10, cns.....lb.11.35 - —
No. 11, cns.....lb.11.35 - —
No. 19, cns.....lb.16.85 - —
No. 22, cns.....lb. 9.15 - —
No. 33, cns.....lb.14.65 - —
No. 37, cns.....lb.13.55 - —
Dyes, coaltar, certified colors for external use drugs and cosmetics, 1-lb. lots:—
Blue, Ext. D&C, No. 1, cns.....lb.13.55 - —
Green, Ext. D&C, No. 1, cns.....lb.13.55 - —
Red, Ext. D&C, No. 1, cns.....lb.11.35 - —
No. 3, cns.....lb.24.00 - —
Yellow, Ext. D&C, No. 1, cns....lb. 9.15 - —
Dyes, oil-soluble, 100-lb. dms., sellers' works or warehouse.
Black, blue, No. 550.....lb. .61 - —
Jet, No. 551 .....lb. .66 - —
Brown, R, conc.....lb 1.04 - —
Orange R, brilliant.....lb. .67 - —
Red, 4 B, conc.....lb. 1.03 - —
Yellow, C .....lb. .88 - —
FN, conc. .....lb. .91 - —
Dyes, spirit-soluble, same basis.
Auramine, O .....lb. 1.54 - —
Black, basic, blue.....lb. .91 - —
Jet .....lb. .91 - —
Blue, methylene, 2 B, conc....lb. 1.21 - —
Brown, Bismarck, R, conc....lb. .61 - —
Chrysodine, R, extra.....lb. .44½ - —
Y, extra .....lb. .48 - —
Fuchsine, conc. .....lb. 2.63 - —
Green, Malachite, conc.....lb. 1.64 - —
Rhodamine, B .....lb. 4.37 - —
Safranine, Y, conc.....lb. 2.19 - —
Violet, methyl, B.....lb. .87 - —
Dyes, water-soluble, same basis.
Black, acid blue, B, extra.....lb. .61 - —
Orange, acid, Y, conc.....lb. .36 - —
Rhodamine, azo-, R, extra, conc. lb. .79 - —
Scarlet, croceine, MOO.....lb. 1.12 - —
Yellow, azo-, conc. .....lb. .81 - —
Fast light, 3 G, extra.....lb. 1.69 - —
Methanil, conc.....lb. .70 - —
Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls.....lb. .60 - .65
Egg albumen (see Albumen).
Yolk, dried, dom., bbls.....lb. 1.12 - 1.14
tanners, bbls .....lb. .05½ - .07
Elder flowers, bright, bls.....lb. .60 - .65
Elecampane root, bls. .....lb. .35 - .40
Elm bark, grinding, bls.....lb. .35 - .36
powd., bbls., bxs. .....lb. .48 - .54
select, bndls. .....lb. .55 - .56
Emetine hydrochloride, bots. ..... oz.53.50 -54.00
Ephedra herb, bls. .....lb. .20 - .21
Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs. oz. .84 - —
hydrous, bots., 100 ozs.....oz. .76 - —
Hydrochloride, tin, 100 ozs.....oz. .60 - —
Sulphate, cryst., tins, 100 ozs..oz. .57 - —
powd., tins, 100 ozs.....oz. .58 - —
Epichlorohydrin, dms., c.l., works, lb. .46 - —
l.c.l., works .....lb. .46½ - —
tanks, works .....lb. .41½ - —
Epinephrine, synth., USP, bots..gram .60 - .70
Epsom salt, tech., bgs., c.l.....100 lbs. 2.30 - —
l.c.l. .....100 lbs. 3.05 - —
USP, cryst., bgs., c.l.....100 lbs. 2.50 - —
l.c.l., 5,000 lbs., 1 withdrawal, 100 lbs. 3.25 - —
smaller lots .....100 lbs. 3.50 - —
Epsom salt prices freight equalized: Balto., Carteret, N. J.; Chicago, Cincinnati, Cleveland, Midland, Mich
Ergot, USP, cns.....lb. 1.25 - 1.30
Eserine, bots.....oz. No prices
Sulphate, bots.....oz.60.00 -61.00
Ether, acetic (see Ethyl acetate).
Amyl, dms., c.l., works.....lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .085 - —
Butyl, dms., l.c.l., dlvd.....lb. .31 - —
Butyric (see Ethyl butyrate).
Dichloroethyl, purif., dms., works, frt. equald..lb. .13½ - —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12½ - —
Ethyl (see Ether, sulphuric).
Isopropyl, dms., c.l., dlvd.....lb. .06 - —
l.c.l., dlvd. .....lb. .06½ - —
tanks, dlvd. .....lb. .04½ - —
Nitrous, conc., bots., 100 lbs.....lb. .98 - 1.10
Sulphuric, conc., dms.....lb. .18 - .23
USP, anesthesia, hospital, cns.lb. .61 - .75
synthetic, dms., c.l., frt. alld..lb. .18 - —
l.c.l., same basis.....lb. .19 - —
tanks, same basis.....lb. .16 - —
Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld..lb. .19½ - —
l.c.l., frt. alld.....lb. .20½ - —
tanks, frt. alld.....lb. .18 - —
95-98%, dms., c.l., frt. alld..lb. .20 - —
l.c.l., frt. alld.....lb. .21 - —
tanks, frt. alld.....lb. .18½ - —
99%, dms., c.l., frt. alld.....lb. .20 - .20¼
l.c.l. frt. alld.....lb. .21 - .21¼
tanks, frt. alld.....lb. .18½ - .18¾
NF, dms.....lb. .30 - —
synthetic, 85-90%, dms., c.l., frt. alld..lb. .13½ - —
l.c.l., frt. alld.....lb. .14 - —
tanks, frt. alld.....lb. .12 - —
95-98%, dms., c.l., frt. alld....lb. .13½ - —
l.c.l., frt. alld.....lb. .14½ - —
tanks, frt. alld.....lb. .12¼ - —
Ethyl acetoacetate, dms., c.l., works. lb. .55½ - —
l.c.l., frt. alld.....lb. .56½ - —
Benzoate, bots.....lb. .60½ - .65
Betaethoxypropionate, dms., works. lb. .70 - —
Bromide, tech., 98%, dms.....lb. .36 - .40
Butyrate, bots.....gal. 5.50 - —
cns., works.....lb. .65 - .70
dms., works.....lb. .60 - —
Carbamate, dms., dlvd., E.....lb. .58 - —
Chloride, tech., tanks.....lb. .13½ - —
USP, bbls., cyl.....lb. .20 - .24
Cinnamate, cns.....lb. 2.30 - 3.25
Ethanolamine, mixed, dms., c.l., works..lb. .27 - —
l.c.l., works.....lb. .28 - —
Formate, dms. .....lb. No stocks
Iodide, bots.....lb. 3.50 - 3.60
Lactate, dms., works.....lb. .41 - —
Methacrylate, M-2, dms., works..lb. .60 - —
cns., works.....lb. .63 - .67
P-2, cns., works.....lb. .65 - —
Myristate, dms., works.....lb. No prices
Oenanthate, dms. .....lb. 2.60 - 3.25
Oleate, dms., l.c.l., works.....lb. .75 - —
Oxalate, dms., frt. alld.....lb. .33 - —
Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms., works. lb. .50 - —
Ethylalphanaphthylamine, bbls.....lb. .75 - —
Ethylaniline, dms.....lb. .60 - —
Ethylcellulose 5lb dms., 5,000 lbs., works..lb. .53 - —
smaller lots, works.....lb. .54 - .62
Ethyldiethanolamine, dms., l.c.l., works lb. .80 - —

1901
Saccharin, U.S.P.



1948
Saccharin, U.S.P.
Benzyl Benzoate, U.S.P.
Glycerophosphates
Sodium Benzoate, U.S.P.
Caffeine, U.S.P.
Sodium Phosphate, Di
Methyl Salicylate, U.S.P.
Chloral Hydrate, U.S.P.
Phenol, U.S.P.
Benzoic Acid, U.S.P.
Acetanilid, U.S.P.
Ferric Phosphates
Salol (Phenyl Salicylate)
Magnesium Phosphates
Salicylic Acid, U.S.P.
Phenolphthalein, U.S.P.
Chloramine-T
Phosphoric Acid
Calcium Phosphate, Di
Acetophenetidin, U.S.P.
Potassium Ammonium Phosphate
Sodium Salicylate, U.S.P.
Sulfanilamide, U.S.P.
Acetyl Salicylic Acid, U.S.P. (Aspirin)

Starting with one product — saccharin — in 1901, Monsanto's line of pharmaceutical chemicals has grown with each successive year until now a large and varied selection is available to drug manufacturers.

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Ethylene Dichloride—Green, Chrome, Reduced Color

Ethylene dichloride, dms., c.l., works. frt. alld. E. of Rockies..lb. .03½- —
West of Rockies.....lb. .09 - —
l.c.l., works, frt. alld. E. of Rockies..lb .09½- —
West of Rockies.....lb. .10 - —
smaller containers .....lb. .12½- —
tanks, frt. alld. E. Rockies...lb. .07 - —
West of Rockies.....lb. .07½- —
Oxide, dms. c.l., works.....lb. .20 - —
l.c.l., works .....lb. .21 - —
tanks, works .....lb. .15 - —
Trichloride (see Trichloroethane).
Ethylenediamine, tanks, works...lb. .50 - —
Ethyleneglycol, dms., c.l., frt. alld. E..lb. .13½- —
l.c.l., same basis.....lb. .14½- —
tanks, same basis.....lb. .12 - —
Monobutylether, dms., c.l., works.lb .21 - —
l.c.l., works .....lb. .22 - —
tanks, works .....lb. .20 - —
Monoethylether, dms., c.l., works.lb .17 - —
l.c.l., works .....lb. .18 - —
tanks, works .....lb. .16 - —
Monoethylether acetate, dms., c.l., works..lb. .15 - —
l.c.l., works .....lb. .16 - —
tanks, works .....lb. .14 - —
Monomethylether, dms., c.l., works.. lb. .18 - —
l.c.l., works .....lb. .19 - —
tanks, works .....lb. .17 - —
Monomethylether acetate, dms., c.l., works..lb. .23 - —
l.c.l., works .....lb. .24 - —
tanks .....lb. .22 - —
Ethylethanolamines, mixed, dms., c.l., works..lb. .27 - —
l.c.l., works.....lb. .30 - —
Ethylmonoethanolamine, l.c.l., dms., works..lb. .80 - —
Ethylmorphine, hydrochloride, bots.oz.11.85 - —
Ethylorthotoluidine, bbls. .....lb. .50 - —
Ethylvanillin, cns., 5 lbs. or more..lb. 6.75 - —
smaller lots .....lb. 6.80 - 6.90
Eucalyptol, USP, cns., dms.....lb. 2.25 - 4.00
Eucalyptus leaves, bls.....lb .14 - .15
Eugenol, prime USP XII.....lb. 2.95 - 3.25
Euphorbia, pil., herb, bls.....lb. .17 - .18

F

Feldspar, enamel, 100 mesh bgs., works. ton.17.00 -20.50
bulk, c.l., works..... ton.14.00 -17.50
Glass, 20 mesh, bgs., tons, works. ton.12.75 -16.25
bulk, c.l.....ton. 9.75 -12.25
Pottery, bulk, c.l., works.....ton.17.00 -19.00
bgs., f.c.l., 2 tons, works.....ton.20.00 -22.00
Fennel seed, Argentine, bgs., futures, lb. .11½- .12
Indian, bgs., afloat.....lb. .15 - .15½
Fenugreek, domestic, bgs.....lb. .10 - .10½
Indian, bgs. .....lb. .10 - .10½
futures, bgs. .....lb. .09½- .10
Ferric sulphate (see Iron sulphate, ferric).
Film scrap, colored, cs., works....lb. .14½- —
water-white, cs., works.....lb .15½- —
Fir balsam, Canada, cns.....gal.32.00 -35.00
Oregon, bbls. .....gal. 2.35 - 2.65
Fishberries, bgs. .....lb. .24 - .25
Fishliver oils (see Oil, fishliver).
Fishmeal, grd., 60% protein, bgs., Balto. area..ton.160.00 - —
65% protein, bgs., Balto area..ton.170.00 - —
Fishscrap, dried, 60% protein, bulk, Balto. area..ton.140.00 - —
Fleaseed, black, bgs.....lb 45 - 46
blonde, bgs. .....lb 27 - 30
Husks, bgs. .....lb 80 - 85
Fluorspar, acid grade, bgs., c.l., mines. ton.45.50 - —
l.c.l., mines .....ton.47.50 - —
bulk, contract, c.l., mines.....ton.40.00 - —
noncontract c.l., mines.....ton.43.00 - —
l.c.l., mines .....ton.45.00 - —
Ceramic grade, No. 1, ground, 90-92% CaF_2, bulk, c.l., mines..net ton.38.50 - —
washed gravel, 70% or more, CaF_2, bulk, c.l., mines..ton.31.00 - —
65% bulk, c.l., mines.....ton.33.00 - —
60% bulk, c.l., mines.....ton.32.00 - —
less than 60% bulk, c.l., mines. ton.30.00 - —
Formaldehyde, bbls., c.l., works....lb .0645- —
l.c.l., works..... .....lb. .0655- —
dms., extra, c.l., works.....lb .0545- —
l.c.l., works.....lb. .0595- —
tanks, works.....lb. .0370- —
tanktrucks, dlvd., N.Y.C.....lb. .0395- —
Fringetree bark, bls.....lb. 65 - .66
Fuller's earth, dom., powd., bgs., c.l., Fla., Ga. mines. ton.30.00 - —
Tex. mines .....ton.27.00 - —
spent, bulk, Bayonne.....ton 2.00 - 4.00
imp., bgs., c.l.....ton.30.00 -40.00
Furfural, tech., dms., c.l., works.lb. .13 - —
dms., cns., l.c.l, works.....lb. .15½- .20½
tanks, works .....lb. .09½- —
Fusel oil, refined, dms., c.l.....lb. .29½- —
l.c.l. .....lb. .30½- —
tanks .....lb. .28 - —
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .42½- —
No. 1A, bbls., l.c.l.....lb .41½- —
No. 2, bbls., l.c.l.....lb .40½- —
No. 3, bbls., l.c.l.....lb .38½- —
liquid, No. 0, bbls., l.c.l.....lb .22 - —
No. 1, bbls., l.c.l.....lb .20½- —
No. 2, bbls., l.c.l.....lb .19½- —
No. 3, bbls., l.c.l..... ...lb .17 - —
solid, No. 1, bxs., l.c.l.....lb .28 - —

G

G salt, bbls.....lb .55 - —
Galangal root, bls.....lb .18 - .19
Gambier, plantation, bgs., ex dock lb. .21 - .23
Extract, bbls.....lb. No stocks
Gammapicoline, 95%, dms., c.l., works lb. 1.35 - —
Gasoline, at refinery, ex tax, Arkansas, 73-75 octane, tanks.. gal. .1075- —
Bayonne, 74 octane, tanks....gal. .118 - —
Gulf coast, 73-75 octane, tanks, gal. .105 - 11
Group 3, 73-75 octane, tanks..gal. .105 - .1175
Pennsylvania, western, U. S. motor, 74 octane, leaded tanks, gal. .115 - —
natural, 26-70, octane group 3, tanks..gal. .085 - —
Gelatin, silver label, ctns., dlvd....lb 1.25 - —
export, cs.....lb. 1.35 - —
Gelatin price 5c. higher for deliveries in Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Tex., Utah, Wash., Wyo
Gelsemium root, bls.....lb. .35 - .40
Gentian root, bls.....lb. .18 - .19
grd., bbls., bxs.....lb. .22 - .24
powd., bbls., bxs.....lb. .23 - .25
Geraniol, 92-96%, cns. dms.....lb 3.40 - —
prime .....lb. 2.75 - —
Geranyl acetate, cns.....lb. 3.35 - 3.90
Ginger, oleoresin, bots.....lb. 4.25 - 4.75
Root, African, No. 1, bls.....lb. .14 - .14½
Cochin, bleached, bgs.....lb. .16½- .17
unbleached, bgs.....lb. .16½- .17
Jamaica, No. 1, bgs.....lb. .20 Nom.
No. 2, new crop, bgs., futures..lb. .17½- .18
No. 3, new crop, bgs., futures..lb. .16½- .17
Rhattoon, bgs. .....lb. .16 - .16½
Glauber's salt, anhyd. (see Soda sulphate).
cryst., bgs., works.....100 lbs. 1.25 - 1.75
l.c.l. bgs., works.....100 lbs. 1.75 - 2.10
Glue, bone, calcium type, 24 millipoise, 30 jellygrams, bgs., c.l., East of Midwest..lb. .21 - .24
56/56, bgs., c.l., same basis....lb. .22 - .26
58/82, bgs., c.l. ,same basis....lb. .23 - .26
82/108, bgs., c.l., same basis...lb. .25 - .27
Bone glue, l.c.l. prices, 1c. higher than c.l.
100-121 (jelly test in grams), bgs., c.l., dlvd..lb. .23 - .27
122-149, bgs., c.l., dlvd.....lb. .25 - .29
150-177, bgs., c.l., dlvd.....lb. .25 - .29
178-206, bgs., c.l., dlvd.....lb. .26 - .30
207-230, bgs., c.l., dlvd.....lb. .27 - .31
237-266, bgs., c.l., dlvd.....lb. .28 - .32
267-298, bgs., c.l., dlvd.....lb. .29 - .33
299-330, bgs., c.l., dlvd.....lb. .30 - .34
331-362, bgs., c.l., dlvd.....lb. .31 - .35
363-394, bgs., c.l., dlvd.....lb. .32 - .36
395-427, bgs., c.l., dlvd.....lb. .33 - .37
428-460, bgs., c.l., dlvd.....lb. .34 - .38
461-491, bgs., c.l., dlvd.....lb. .35 - .39
495-529, bgs., c.l., dlvd.....lb. .36 - .40
Hide glue l.c.l. prices 1c. higher than c.l.; bbls., ½c. more than bgs.
Glycerin, crude, saponification, 88% to refiners, tanks, dlvd..lb .31 - .32
soaplye, 80% tanks, dlvd.....lb. .29 - .30
dynamite, dms., c.l., dlvd.....lb. .39½- .40¼
l.c.l., dlvd. .....lb. .40 - .40¾
tanks, dlvd. .....lb. .39¼- .40
high gravity, dms., c.l.....lb. .39½- .40¼
l.c.l. .....lb. .40 - .40¾
tanks .....lb. .39¼- .40
refined, BP, 98%, dms., c.l.....lb. .39¾- .41½
tanks .....lb. .39½- .41¼
USP, 95%, dms., c.l.....lb. .39½- .41¼
l.c.l. .....lb. .40 - .41¾
tanks .....lb. .39¼- .40
yellow, distilled, dms., c.l.....lb. .39⅝- .40⅛
l.c.l. .....lb. .39⅞- .40⅝
Glycine USP (see Acid, aminoacetic).
Glycol boriborate, dms.....lb. .22 - —
Stearate, dms. .....lb. .26 - —
Gold chloride, acid-brown, bots.....oz.22.00 -22.25
acid-yellow, bots. .....oz.20.00 -20.25
Gold of pleasure seed, bgs., futures lb. .30 - .31
Goldenseal root, bls.....lb. 6.10 - 6.25
powd., bxs. .....lb. 6.40 - 6.55
Gold-sodium chloride, photo, bots..oz.13.00 -13.50
USP IX, bots.....oz.14.00 -14.50
Grains of paradise, bgs.....lb. .40 - .42
Graphite, imported, amorph., powd., bgs., dlvd..lb. .04 - .06
crystalline, 88-90%, powd., bgs., ex whse..lb. .14 - .16
90-92%, powd., bgs., ex whse. lb. .16 - .19
97%, powd., bgs., ex whse....lb. .22 - .25
flake, No. 1, 90-95%, bgs., ctns., ex whse..lb. .21 - .22
No 2, bgs., ex whse.....lb. .23 - —
Grease, house, loose.....lb. .18 - —
White, choice, loose.....lb. .20 - —
Wool (see Degras and Lanolin).
Yellow, loose.....lb. .18½- —
Green, brilliant, thioflavin, toner, molybdic, kgs., works..lb. 4.25 - 4.50
Tungstic, kgs., works.....lb. 4.25 - 4.50
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N.C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .32 - —
6-10%, bbls., same basis..lb. .33 - —
11-15%, bbls., same basis..lb. .34 - —
16-20%, bbls., same basis..lb. .34½- —
21-25%, bbls., same basis..lb. .35½- —
26-30%, bbls., same basis..lb. .35½- —
31-35%, bbls., same basis..lb. .35½- —
36-40%, bbls., same basis..lb. .38½- —
41-45%, bbls., same basis..lb. .40 - —
46-50%, bbls., same basis..lb. .41¾- —
50% and over, bbls., same basis..lb. .42¾- —
reduced color, 5%, bbls., same basis. lb. .10 - —
6-10%, bbls., same basis..lb. .10¾- —
11-13%, bbls., same basis..lb. .11¼- —
14-16%, bbls., same basis..lb. .12 - —
17-19%, bbls., same basis..lb. .12¼- —
20-21%, bbls., same basis..lb. .12½- —
22-23%, bbls., same basis..lb. .12¾- —
24-25%, bbls., same basis..lb. .13 - —
26-27%, bbls., same basis..lb. .13½- —
28-29%, bbls., same basis..lb. .14 - —
30-31%, bbls., same basis..lb. .15 - —
32-33%, bbls., same basis..lb. .16¼- —
34-35%, bbls., same basis..lb. .17¼- —
36-40%, bbls., same basis..lb. .20 - —
41-45%, bbls., same basis..lb. .22½- —
46-50%, bbls., same basis..lb. .23¾- —
51-55%, bbls., same basis..lb. .23½- —
56-60%, bbls., same basis..lb. .24 - —

CELANESE* FORMALDEHYDE

Formaldehyde is one of the most important products in the expanding family of organic chemicals produced at CHEMCEL, the Celanese plant near Bishop, Texas.

High quality Celanese Formaldehyde U.S.P. is sold commercially as Formalin—a water white solution containing 40% Formaldehyde by volume, 37% by weight. It is manufactured in both methanol inhibited and uninhibited grades.

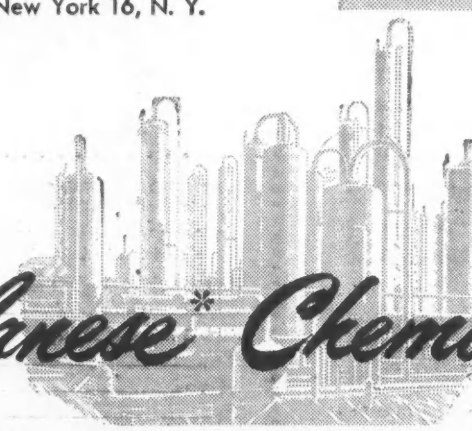
A clear, colorless liquid, controlled to meet the most exacting requirements, Celanese Formaldehyde is widely used in resins, adhesives, plastics and in the production of various organic chemicals.

A new brochure is available containing specifications and general information on many of the Celanese organic chemicals. Write for your copy—and call on Celanese whenever you need technical assistance regarding organics.

CELANESE CORPORATION OF AMERICA
Chemical Division
180 Madison Avenue, New York 16, N. Y.

CELANESE*
iso-Propyl Alcohol

Celanese iso-Propyl Alcohol, produced in tank car quantities, is a Technical Grade alcohol possessing an exceptionally pleasant odor. This unusual characteristic suggests wide application as a chemical intermediate, solvent, extractant, diluent and for conversion to its respective esters. In addition, its low freezing point characteristics have fully established its use as an anti-freeze.



Celanese* Chemicals
*Reg. U. S. Pat. Off.

ALCOHOLS • ALDEHYDES • GLYCOLS • KETONES • ORGANIC ACIDS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

Green, chrome, reduced color, 61-65%, bbls., same basis..lb. .25 - —
66-70%, bbls., same basis..lb. .26¼- —
Chrome green prices are ½c. higher dlvd Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¾c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., works..lb. .85 - —
pure, bgs., works..lb. .32 - 38½
Malachite, thioflavin toner, molybdic, bbls., works..lb. 3.00 - —
Tungstic, bbls., works..lb 3.40 - —
Paris (see P)
Phthalocyanin toner, bbls., works..lb. 4.40 - 5.00
Tungstated, brilliant, kgs..lb. 3.00 - 4.00
Emerald, kgs..lb. 2.60 - —
Verdigris (see V)
Dyes (see Dyes, coaltar).
Grindelia robusta herb, bls..lb. 30 - 35
Guaiac resin, cs..lb. 48 - 49
Wood, bls..lb. 35 - 36
Guaiacol, cryst., NF, tins..lb. 1.75 - —
liquid, NF, bots., cbys..lb. 1.80 - —
Carbonate NF, dms..lb. 2.85 - —
Guarana, powd., cs..lb. 2.00 - 2.10
Gum, accroides (see Gum, yacca).
Aloe (see A)
Ammoniac, tears, cs..lb. .90 - .93
Arabic, amber, sorts, bgs..lb. .14½- 15
white, sorts, 1, bgs..lb. .28 - .29
powdered, USP, bbls..lb. .20½- 21
Asafetida (see A)
Asphalthum (see A).
Benzoin, Sumatra, cs..lb. .50 - .55
Camphor (see C).
Copal, Congo, No. 1, bgs..lb. .26 - .28
No. 2, bgs..lb. .21 - .22
No. 3, bgs..lb. .19 - .21
Macassar DBB, bgs..lb. .24 - .25
MA, bgs..lb. .24½- .25½
loba C, bgs..lb. .27½- .28½
Philippine, 1st quality, bgs..lb. .27 - .30
2nd quality, bgs..lb. .25 - .27
3rd quality, bgs..lb. .20 - .23
Dammar, Batavia, AE, cs..lb. .25 - .27
E, cs..lb. .18½- .20½
Singapore, No. 1..lb. .31 - .32
No. 2, cs..lb. .24 - .25
East India, black, bold, bgs..lb. .14½- .16
Batu, bold, bgs..lb. .12 - 13½
nubs, bgs..lb. .08½- .09¼
Elemi, cns..lb. .27 - .29
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul Va., W. Va..lb. .16¾- —
wood-rosin type, dms., any quantity, dlvd., Ill., Ind., etc..lb. .16¾- —
Euphorbium, cs..lb. .50 - .55
Galbanum, cs..lb. .85 - .90
Gamboge, pipe, cs..lb. 1.70 - 2.00
powd., bbls..lb. 1.95 - 2.25
Ghatti, No. 2, bgs..lb. .35 - .37
No. 3, bgs..lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, No. 1..lb. .46 - .51
No. 2..lb. .38 - .43
No. 3..lb. .32 - .36
No. 4..lb. .28 - .31
No. 5..lb. .23 - .27
No. 6..lb. .20 - .22
Kauri, bgs..lb. .31 - —
Locust bean, powd., bgs..lb. .42 - .48
Mastic, cs..lb. 2.25 - —
Myrrh, cs..lb. .45 - .46
Olibanum, siftings, cs..lb. .12 - .13
tears, cs..lb. .22 - .39
Opium (see O).
Red (see Gum yacca).
Rosin (see R)
Sandarac, cks..lb. 1.47 - 1.50
Scammony, cs..lb. 1.50 - 1.55
Sterculia (see Gum, karaya).
Talha, bgs..lb. .10 - .11
Tragacanth, No. 1, cs..lb. 3.00 - 3.70
No. 2, cs..lb. 3.20 - 3.25
No. 3, cs..lb. 2.25 - 2.50
powdered, USP, bbls..lb. 1.35 - 1.45
Yacca, bgs..lb. .06 - .07
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald..ton. 22.65 - —
Harlem river, N. Y., frt. equald..ton. 28.25 - —
Medicine Lodge, Kans., frt. equald..ton. 17.00 - —
New Brighton, N. Y., frt. equald..ton. 30.65 - —
Southard, Okla., frt. equald..ton. 17.00 - —
Sweetwater, Tex., frt. equald..ton. 21.45 - —
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald..ton. 12.50 - —
Blue Rapids, Kans., frt. equald..ton. 10.50 - —
Harlem river, N. Y., frt. equald..ton. 12.00 - —
Medicine Lodge, Kan., frt. equald...ton. 12.50 - —
New Brighton, N. Y., frt. equald..ton. 18.00 - —
Southard, Okla., frt. equald..ton. 12.50 - —
Sweetwater, Tex., frt. equald...ton. 12.50 - —
Stucco, paper bgs., c.l., Acme, Texas, frt. equald..ton. 8.00 - —
Akron, N. Y., frt. equald..ton. 8.00 - —
Blue Rapids, Kans., frt. equald..ton. 8.00 - —
Clarence Center, N. Y., frt. equald..ton. 8.00 - —
Fort Dodge, Iowa, frt. equald..ton. 8.00 - —
Grand Rapids, Mich., frt. equald..ton. 8.00 - —
Gypsum, Ohio, frt. equald..ton. 8.00 - —
Harlem river, N. Y., frt. equald..ton. 8.00 - —
National City, Mich., frt. equald..ton. 8.00 - —
New Brighton, N. Y., frt. equald..ton. 8.00 - —
Plasterco, Ga., frt. equald..ton. 8.00 - —
Portsmouth, N. H., frt. equald..ton. 8.00 - —
Roton, Texas, frt. equald..ton. 8.00 - —
Saltville, Va., frt. equald..ton. 9.00 - —
Southard, Okla., frt. equald..ton. 8.00 - —
Sweetwater, Texas, frt. equald..ton. 8.00 - —
Terra alba, paper bgs., c.l., Harlem river, N. Y.; works..ton. 22.50 - —
New Brighton, N. Y., works..ton. 21.00 - —

H

Hawthorn berries, bg..lb. .57 - .59
Heliotropin, cryst., cns..lb. 3.25 - 4.00
Hellebore, white, powd., bbls..lb. .70 - .71
Helonias root, bls..lb. 2.20 - 2.25
Hematine extract, cryst., No. 0, bbls., l.c.l..lb. .45½- —
No. 1, bbls., l.c.l..lb. .44½- —
No. 1A, bbls., l.c.l..lb. .41½- —
No. 2, bbls., l.c.l..lb. .40½- —
No. 3, bbls., l.c.l..lb. .38½- —
No. 4, bbls., l.c.l..lb. .36½- —
No. 5, bbls., l.c.l..lb. .34½- —
paste, No. 1, bbls., l.c.l..lb. .19 - —
No. 2, bbls., l.c.l..lb. .18 - —
No. 3, bbls., l.c.l..lb. .17 - —
No. 4, (red), bbls., l.c.l..lb. .12½- —
Hemlock bark extract, 25% tannin, bbls., c.l., works..lb. No stocks
tanks, works..lb. No stocks
Henbane leaves, bls..lb. 1.00 - 1.25
Henna leaves, bls..lb. 25 - .28
powd., bbls., bxs..lb. 34 - .36
Heptane, industrial, 90°-100° C., dms., c.l., group 3..gal. .17 - .19
l.c.l., group 3..gal. .21 - .60
tanks, group 3..gal. .12½- .13½
77°-115° C., dms., c.l., group 3..gal. .16 - .18
l.c.l., group 3..gal. .21 - .60
tanks, group 3..gal. .12 - .12¾
laboratory, dms., c.l., group 3..gal. .21 - —
l.c.l., group 3..gal. .30 - .60
Hexalin (see Cyclohexanol).
Hexaethyl tetraphosphate, cns., works..lb. 1.25 - —
dms., c.l., works..lb. .80 - —
l.c.l., works..lb. .90 - 1.00
Hexamethylene-tetramine, tech., bbls., 1,000-lb. lots, Perth Amboy or N.Y.C..lb. .28 - —
smaller lots, same basis..lb. .29 - —
USP, dms., 500 lbs. or more, same basis..lb. .37 - —
smaller lots, same basis..lb. .38 - —
Hexane, industrial, 60°-70° C., dms., c.l., group 3..gal. .19 - .20
tanks, group 3..gal. .13½- .14¼
tanks, group 3..gal. .12½- .13½
laboratory, dms., c.l., group 3..gal. .21 - —
l.c.l., group 3..gal. .30 - .60
Hexanol, normal, dms., l.c.l., works..lb. .25 - —
Homatropine, hydrobromide, bots..oz. 15.00 -25.00
Hydrochloride, bots..oz. 20.00 -22.00
Hoofmeal, 17-18% ammonia bulk, c.l., Chicago, unit-ton..ton. 10.00 - —
Hops, NF, bls..lb. .55 - 1.30
Horehound, bls..lb. .12 - .13
Hydrangea, root, bls..lb. .22 - .25
Hydrastine, bots..oz. 20.00 -22.00
Sulphate, bots..oz. 29.00 -32.00
Hydrastinine, 10-grain bots..bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrofuramide dms., fib. cns., works..lb. .30 - .40
Hydrogen peroxide, USP, bbls..lb. .03¾- .05
100 vols., cbys., E. of Miss. or West coast via Panama Canal..lb. .15½- .18½
Hydroquinone, bbls., dms..lb. .90 - .94
Hydroxycitronellal, cns..lb. 6.50 - 7.50
Hyoscine hydrobromide, bots..oz. 39.00 -45.00
Hyoscyamine, bots..oz. 18.00 -20.00
Hydrobromide, bots..oz. 18.00 -19.50
Sulphate, bots..oz. 14.00 -19.50
Hypernic extract, cryst., No. 1, bbls., l.c.l..lb. .52½- —
No. 2, bbls., l.c.l..lb. .44½- —
liquid, No. 1, bbls., l.c.l..lb. .28½- —
No. 2, bbls., l.c.l..lb. .23½- —
solid, No. 1, bxs., l.c.l..lb. .41 - —
Hyssop herb, bgs..lb. .50 - .55
Leaves, bgs..lb. .55 - .60

Green, Chrome, Reduced Color, 61-65%—Iron Glycerophosphate

I

Iceland moss, bgs..lb. .50 - .52
Ichthammol, NF, bots..lb 2.45 - —
Indian red (see Red, Indian).
Indigo, nat., chests..lb. 2.14 - 2.80
synth., paste, bots..lb. .16½- .19
powd., bbls..lb 74½- .85
Indol, CP, bots..lb. 18.00 -23.00
Inositol, tins, dlvd..lb 5.00 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs., ex whse., Staten Island..lb. 1.729 - —
resubl., bots., jars..lb. 2.35 - 2.45
Iodoform, dms., kgs..lb. 4.45 - —
Ionone ketone, alpha, cns..lb. 12.30 -16.40
beta, cns..lb. 9.00 -12.50
pure, cns..lb. 5.65 - 7.95
Methyl (see M).
IPC, bots., 1-5 lbs..lb. 2.68 - 2.72
fib. dms., 100 lbs., ship't. point..lb. 2.30 - 2.50
50 lbs., ship't point..lb. 2.40 - 2.52
10-25 lbs., ship't point..lb. 2.50 - 2.54
Ipecac root, bgs..lb. 5.25 - 5.30
powd., bgs..lb. 5.45 - 5.50
Irish moss, bleached, prime, bls..lb. .20 - .21
Iron acetate, liquor, 28°, bbls., c.l., works..lb. .09 - —
l.c.l., works..lb. .09¾- —
solut., USP IX, cbys..lb. .17 - —
djns..lb. .18 - —
Chloride (ferric), anhydr., tech., dms., c.l., works..100 lbs. 4.90 - 5.25
l.c.l., works..100 lbs. 6.50 - 6.85
cryst., tech., bbls., works..100 lbs. 4.00 - 6.00
l.c.l., bbls., works..100 lbs. 4.50 - —
USP X, lump, bbls..lb. .07 - .08½
solut., 42 Be, cbys., works, frt. alld. or equald..lb. .05½- .06
djns., same basis..lb. .10 - —
Citrate, gran., dms..lb. .77 - .79
Glycerophosphate, N.F., powd..lb. 4.35 - —

Let CALCO supply you SULFA-DRUGS

CALCO, in its great plants at Bound Brook, N. J., produces a wider range of SULFA DRUGS than any other manufacturer in the world. In these giant-capacity plants, rigid inspection from laboratories through to finished big-scale production assures a uniform high excellence of quality and an assured source of supply. This is why you will find it advantageous to look to CALCO for these sulfonamides:

SULFADIAZINE USP

"King of the Sulfonamides"

Powder...or...Micro Crystal

Sodium Sulfadiazine USP
Sulfamerazine
Sodium Sulfamerazine
Sulfanilamide USP (powder, crystal, micro crystal)
Sulfathiazole USP (powder, crystal, micro crystal)
Sodium Sulfathiazole USP
Sulfapyridine USP
Sodium Sulfapyridine

Detailed technical bulletins are available on all these products and CALCO'S Technical Application Department will welcome the opportunity to assist you in the development of special formulae.

Represented in Canada by Calco Chemical Division
North American Cyanamid, Limited
P. O. Box 10, St. Lambert, Montreal 23, P. Q.
Royal Bank Bldg., Toronto 1, Ontario

CALCO's Bulk Pharmaceuticals*

Sulfadiazine U.S.P.
(powder and micro crystal . . . the Sulfa drug of choice)
Sodium Sulfadiazine U.S.P.
Sulfamerazine U.S.P.
(powder and micro crystal)
Sodium Sulfamerazine U.S.P.
Sulfanilamide U.S.P.
(powder, crystal and micro crystal)
Sulfathiazole U.S.P.
(powder, crystal and micro crystal)
Sodium Sulfathiazole U.S.P.
Sulfapyridine N.F.
Sodium Sulfapyridine
Aminoacetic Acid N.F.
Calcium Pantothenate (Dextro)
Choline Chloride
Choline Dihydrogen Citrate
Cinchophen N.F.
(and Sodium Salt)
Folic Acid
Neocinchophen U.S.P.
Mandelic Acid N.F.
Calcium Mandelate U.S.P.
Menadione U.S.P.
Methylene Blue U.S.P.
(powder and crystal)
Nicotinic Acid U.S.P.
Nicotinamide U.S.P.
Nicotinamide HCl.
Saligenin
Propylthiouracil
Phenothiazine N.F.
(Regular and Drench grades for Veterinary use)
Certified Colors for Pharmaceutical and Cosmetic Use

*In keeping with long-established policy, the above products are offered to ethical Pharmaceutical and Veterinary Manufacturers only.

Pharmaceutical Department
Calco
REG. U.S. PAT. OFF.
CALCO CHEMICAL DIVISION
AMERICAN CYANAMID COMPANY
Bound Brook, New Jersey

Iron Hypophosphite—Linseed Meal

Iron hypophosphite, bbls., dms.....lb. 1.50 - 1.52
Iodide, bots.....lb 3.48 3.63
Naphthenate, 6% Fe, dms.....lb. .19½- —
Nitrate, red, tech., dms.....lb. 03½- 04
Oxalate, gran., dms.....lb. 83 - 85
Phosphate, soluble, NF, gran., cs.lb. 64 - 65
Pyrophosphate, soluble, NF VII, gran., dms.lb. 69 - 72
Reduced, 99%, kgs.....lb. 65 - 75
Resinate, 7.4% Fe, dms.....lb. 22 - —
Stearate, dms., c.l.....lb. 46 - —
ton lots.....lb. 47 - —
less ton lots.....lb. 48 - —
Sulphate (ferric), anhyd., bgs., c.l., works.ton.35.00 - —
l.c.l., works.....ton.40.00 - —
partially hydrated, bgs., c.l., works, ton.26.50 - —
(ferrous), tech. (see Copperas)
USP, cryst., bbls., dms.....lb. .09½- 10
Iron-ammonium citrate, brown, green, gran., dms lb. 45 - 46
Oxalate, bbls.....lb. 23½- —
dms., bgs.....lb. .25½- 26½
Iron-sodium oxalate, fine gran., bbls., dms. lb .23½ 26½
Isobornyl acetate, cns.....lb. .97 - 1.10
Thiocyanoacetate, dms., c.l., works, gal. 3.85 - —
l.c.l., works.....gal. 3.85 - 4.05
tanks, works.....gal. 4.23 - —
Isobutyl acetate, cns.....lb. .97 - 1.10
Methacrylate, M-5, dms., works..lb. .60 - —
cns., works.....lb. .63 - 67
P-5, cns., works.....lb. .60 - —
Propionate, cns.....lb. No prices.
Isobutyraldehyde, dms., works.....lb. .33 - 36
Isoeugenol, extra, cns.....lb. 3.25 - 4.00
cbys., extra.....lb. 3.10 - —
Isopentane, dms., works.....lb. 45 - 55
Isophorone, dms., c.l., works.....lb. 21 - —
l.c.l., works.....lb. 22 - —
tanks, works.....lb. 20 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., frt. alld., E. of Rockies lb. .13½- —
l.c.l., same basis.....lb. .14 - —
tanks, same basis.....lb. .12 - —
Alcohol (see Alcohol, isopropyl).
Ether (see Ether, isopropyl).
Phenylacetamate (see IPC).
Isopropylamine, dms., works.....lb 25 - —

J

Jaborandi leaves, bls.....lb. .16 - 17
Jalap root, NF, bls.....lb 44 - 49
powd., bbls., bxs.....lb 50 - 55
Resin, lump, cns.....lb 5.85 - —
powd., bxs.....lb 5.90 - —
Juniper berries, bgs.....lb. .10 - .16
Tar, USP, dms.....lb 50 - 92

K

Kamala, powd., cns.....lb 46 - 48
Kaolin (see China clay).
Kava kava root, bls.....lb. 35 - .40
Kerosene, ar refinery: Ark., 42-44 w.w., tanks...gal. .09625 - —
Bayonne, 41-43, w.w., tanks....gal. .103 - —
California, 40-43 w.w., tanks..gal. .0840- .1340
Gulf ports, 41-43, w.w., tanks..gal. .09 - .095
Okla.-Tex., 41-43, w.w., tanks..gal. .095 - .09625
Penn., 45 w.w., tanks.....gal. .1125- .12
47 w.w., tanks.....gal. .115 - .1225
Kola nuts, bgs.....lb. 08 - 09
Kyanite, imp., low iron content, 10-mesh, whse..ton 85.00 -95.00
calcined, grain, 10-mesh, whse. ton 95.00 -105.00

L

Ladyslipper root, bls.....lb. 1.80 - 2.00
Lanolin, anhyd., cosmetic, dms., works, lb 23 - —
USP, dms., works.....lb. 23 - —
hydrous, cosmetic, dms., works..lb. 23½- —
USP, dms., works.....lb. 27½- —
Lard, cash, tres., Chicago.....lb. .22 - .23
Larkspur seed, bgs.....lb. 55 - 57
Laurel berries, bls.....lb 25 - 26
Leaves, Portuguese, good, bls.....lb. .08½- .09
Turkish, bls.....lb. .09½- .10
Lavender flowers, medium, bls.....lb 66 - —
ordinary, bls.....lb. 30 - 31
select, bls.....lb. .75 - —
Lead acetate, white, broken, bbls lb. 18½- —
cryst., bbls.....lb. .19½- —
gran., powd., bbls.....lb. 19¼- —
Arsenate, basic, powder, 6-lb. bgs, or larger, c.l...lb. 21¾- —
l.c.l.....lb. 22¾- .23¾
1-lb. bgs., c.l.....lb. 20¼- —
l.c.l.....lb. 30¼- .31¼
Lead arsenate prices are works or whse. basis frt. alld. on 96 lbs. or more to dest. East.
Lead, blue, basic sulphate, bbls., c.l., ship't point, frt. allo...lb. .15½- —
l.c.l., works.....lb .15¾- —
Carbonate (see Lead, white).
Chloride, fib. dms.....lb 49 - —
Iodide, NF V, jars.....lb 2.90 - 3.06
Linoleate, solid, 13%, bbls.....lb. 43½- —
Metal, pigs, prime, N. Y.....lb. .15 - —
E. St. Louis.....lb. 1480- .1485
Metallic paste, dms., 10,000-10,000 lbs., works. lb. 27½- —
2,000-10,000 lbs., same basis..lb. 28½- —
up to 2,000 lbs., same basis lb 30 - —
Naphthenate, liquid, 21% Pb, dms.lb. .20½- —
30% Pb, dms.....lb. 24¼- —
solid, 37% Pb, dms.....lb 27½- —
Nitrate, bbls., c.l.....lb. 17¾- —
l.c.l.....lb. 18 - —
Oleate, bbls.....lb. .36 - —
Peroxide, powd., tech., bbls....lb. 29 - 31
Red, 95% Pb_3O_4 or less, bbls., c.l., ship't point, frt. alld. lb. 1760- —
l.c.l., 5 tons, same basis...lb. 1800- —
smaller lots, same basis..lb. 1800- —
97% Pb_3O_4, bbls., c.l., same basis lb. 1785- —
l.c.l., 5 tons, same basis...lb. 1825- —
smaller lots, same basis...lb. 1875- —
98% Pb_3O_4, bbls, c.l., same basis lb. 1810- —
l.c.l., 5 tons, same basis...lb. 1850- —
smaller lots, same basis..lb. 1900- —
Resinate, precip., 23.8% Pb., dms. lb 25 - —
Silicate, bgs.....lb. 17 - 17½
Stearate, bbls., c.l.....lb. 52 - —
ton lots.....lb. .53 - —
less ton lots.....lb. .54 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate).
Tallate, liquid, 16% Pb, dms.....lb. 14 - —
solid, 30% Pb, dms.....lb. 19 - —
White, basic carbonate, bgs., c.l., ship't point, frt. alld. lb. 16 - —
l.c.l., works.....lb. .16¼- 16¼
basic silicate, bgs., c.l., ship't point, frt. alld...lb. 18½- 19¼
l.c.l., same basis.....lb. 19 - .19¾
basic sulphate, bgs., c.l., ship't point, frt. allo. lb 15¼- —
l.c.l., works.....lb. 15¾- —
Lecithin, edible, tech., bleached, dms., non-ret., c.l., works..lb. 28 - —
l.c.l., same basis.....lb. .26 - .31
unbleached, c.l., same basis..lb. 26 - —
l.c.l., same basis.....lb. 25 - 29
Lemon peel, bls.....lb. 25 - 30
Licorice extract, mass, cns.....lb. 25 - 30
powd., bbls.....lb. 40 - 42
Root, bls.....lb. 06 - .07
5-lb. bundles, cs.....lb. 60 - 65
powd., bbls.....lb. 10½- 11
Lignin extract, tanning grade, bgs., c.l., works..lb. 01¾- —
Lime, agricultural, bulk, works, tons. 9.00 - 9.50
Chemical quicklime), lump, pebble, bulk, Adams, Mass.....ton 9.00 - —
Annville, Pa.....ton. 9.00 - —
Bellefonte, Pa.....ton. 9.00 - —
Beckeley, W. Va.....ton. 9.00 - —
Buffalo, N. Y.....ton. 9.00 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa.....ton. 9.50 - —
Crab Orchard, Tenn.....ton. 8.50 - —
Eagle Mountain, Va.....ton. 8.50 - —
Farnams, Mass.....ton. 9.00 - —
Gibsonburg, Ohio.....ton. 9.00 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton. 8.50 - —
Knoxville, Tenn.....ton. 8.50 - —
Limedale, Ark.....ton. 8.50 - —
Longview, Ala.....ton. 9.00 - —
Manistique, Mich.....ton. 8.50 - —
Marblehead, Ohio.....ton 8.50 - —
Martinsburg, W. Va.....ton. 8.50 - —
Menominee, Mich.....ton. 9.00 - —
Mitchell, Ind.....ton. 8.00 - —
Newala, Ala.....ton. 7.50 - —
Ripplemead, Va.....ton 8.50 - —
Riverton, Va.....ton 8.50 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton 6.50 - —
Sherwood, Tenn.....ton. 9.39 - —
Sherwood, Wis.....ton. 8.50 - —
Springfield, Mo.....ton. 8.00 - —
Woodville, Ohio.....ton. 9.50 - —
York, Pa.....ton. 9.00 - —
Hydrated, paper bgs., Adams, Mass. ton 11.50 - —
Annville, Pa.....ton 11.50 - —
Bellefonte, Pa.....ton. 11.50 - —
Beckeley, W. Va.....ton. 10.00 - —
Buffalo, N. Y.....ton. 11.50 - —
Carey, Ohio.....ton. 9.00 - —
Cedar Hollow, Pa.....ton. 11.50 - —
Crab Orchard, Tenn.....ton. 11.65 - —
Eagle Mountain, Va.....ton. 10.00 - —
Engle, W. Va.....ton. 11.50 - —
Farnams, Mass.....ton. 11.50 - —
Gibsonburg, Ohio.....ton. 9.50 - —
Hannibal, Mo.....ton. 9.50 - —
Keystone, Ala.....ton. 12.25 - —
Knoxville, Tenn.....ton. 11.50 - —
Lolloy, Minn.....ton. 10.50 - —
Limedale, Ark.....ton. 10.00 - —
Longview, Ala.....ton. 12.25 - —
Manistique, Mich.....ton. 9.50 - —
Marblehead, Ohio.....ton. 10.50 - —
Mitchell, Ind.....ton. 10.00 - —
Newala, Ala.....ton. 12.25 - —
Petoskey, Mich.....ton. 10.00 - —
Port Island, Mich.....ton. 9.00 - —
Rapid City, S. Dak.....ton. 12.00 - —
Ripplemead, Va.....ton. 10.00 - —
Rockland, Maine.....ton. 9.00 - —
Scioto, Ohio.....ton. 8.00 - —
Sherwood, Tenn.....ton. 12.14 - —
Sherwood, Wis.....ton. 10.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 11.50 - —
Spray, paper bgs., Adams, Mass..ton. 11.70 - —
Annville, Pa.....ton. 11.50 - —
Bellefonte, Pa.....ton. 11.50 - —
Carey, Ohio.....ton. 11.00 - —
Engle, W. Va.....ton. 11.50 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio.....ton. 10.00 - —
Marblehead, Ohio.....ton. 10.00 - —
Rockland, Me.....ton. 10.00 - —
Scioto, Ohio.....ton. 10.00 - —
Woodville, Ohio.....ton. 10.00 - —
York, Pa.....ton. 11.50 - —
Lime salts (see Calcium).
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone).
Limestone, grd., bulk, works...ton. 1.40 - —
Linalool, ex bois de rose.....lb. 4.50 - 6.85
ex lignaloe wood.....lb. 6.50 - 7.00
Linalyl acetate, ex bois de rose, bots.lb. 4.35 - 7.20
ex lignaloe wood, bots.....lb. 8.25 - 8.40
ex petitgrain, bots.....lb. 5.10 - 6.25
Linden flowers with leaves, bls.....lb. .84 - .85
without leaves, bls.....lb. .84 - .85
Linseed meal, 34% bulk, Midwest mills. ton.105.00 -115.00

The PRIME SOURCE

FOR
LANOLIN DERIVATIVES

LANOLIN ALCOHOLS
ALCOLAN
LANOLIC ACIDS
LANOGENE
LANOLIC ACID ESTERS
WOOLGREASE

AND
LECITHIN
BEESWAX
CETAL

There is no substitute for experience.
Years devoted to the production of lanolin and its derivatives and related products have resulted in a "know-how" which assures quality, dependability and uniformity. May we quote on your requirements for the coming year?

ROBINSON WAGNER CO., INC.
110 E. 42nd STREET • NEW YORK 17, N. Y.
PLANT: MAMARONECK, NEW YORK

Litharge, com'l, powd., bbls., c.l. ship't point, frt. alld..lb. .1650- —
l.c.l., 5 tons, same basis..lb. .17 - —
smaller lots, same basis.....lb. .1760- —
Lithium bromide, bbl., works, frt. equald..lb. 1.90 - —
Carbonate, NF, bbls., kgs.....lb. 1.15 - —
Chloride, jars .....lb. 1.15 - 1.65
Citrate, bbls., dms., kgs.....lb. 1.30 - 1.45
Fluoride, bbls .....lb. 1.90 - —
Hydroxide, jars .....lb. 1.15 - 1.25
Lithopone, ordinary, bgs., c.l., ship't point..lb. .06 - —
l.c.l., same basis.....lb. .06½- —
bbls., c.l., same basis.....lb. 06¼- —
l.c.l., same basis.....lb. 06½- —
Titanated (high-strength), bgs., c.l. lb. 07¾- —
smaller lots .....lb. 08 - —
bbls., c.l. .....lb. 08 - —
smaller lots .....lb. 08¼- —
Lithopone Pac. Cst. prices ¾c. higher
Liverwort leaves, bls.....lb. .85 - .95
Lobelia herb, bls.....lb. .85 - .86
Lobeline sulphate, bots., works..oz 25.10 -35.00
Logwood extract, crystals, No. 1, bbls., l.c.l..lb. 38½- —
No. 2, bbls., l.c.l.....lb. 36½- —
liquid, No. 1, bbls., l.c.l.....lb. 18½- —
No. 2, bbls., l.c.l.....lb. 17½- —
No. 3, bbls., l.c.l.....lb. .17 - —
No. 4, bbls., l.c.l.....lb. 16½- —
solid, No. 1, bxs., l.c.l.....lb. .33 - —
No. 2, bxs., l.c.l.....lb. .31 - —
No. 3, bxs., l.c.l.....lb. 28½- —
No. 4, bxs., l.c.l.....lb. .28 - —
No. 5, bxs., l.c.l.....lb. 26½- —
No. 6, bxs., l.c.l.....lb. 44½- .49½
Lovage root, imp., bls.....lb. 1.20 - 1.25
Lupulin, NF VII tin.....lb.10.00 -11.00
Lycopodium, cs.....lb. 2.15 - 2.65

M

Mace, No. 1, Sianw, cs.....lb. 1.40 - 1.42
East Indian, bgs., futures.....lb. 1.35 - 1.38
Papua, bgs., futures.....lb. 1.15 - 1.20
West Indian, bgs., futures.....lb. 1.35 - 1.40
Broken, futures.....lb. 1.25 - 1.30
Madder, Dutch, bgs.....lb. .29 - .32
Magnesia, calcined, tech., bbls., works..lb. .29 - —
USP, bbls.....lb. .31 - .33
Magnesium arsenate, bgs., cans, works..lb. .20 - .30
Bromide, dms.....lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald..lb. .07¼- —
l.c.l., frt., alld.....lb. .08¼- —
bbls., c.l., frt. equald.....lb. .08½- —
l.c.l., frt alld.....lb. .09½- —
kgs., c.l., frt. equald.....lb. .09¾- —
l.c.l., frt. alld.....lb. 10¾- —
USP, bgs., c.l., frt. equald..lb. .09 - —
l.c.l., frt. alld.....lb. .10 - —
bbls., c.l., frt. equald.....lb. .09½- —
l.c.l., frt. alld.....lb. .10½- —
kgs., c.l., frt. equald.....lb. .10¾- —
l.c.l., frt. alld.....lb. .11¾- —

Magnesium carbonate is quoted frt. alld. to N. J., except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean, and Salem counties, and to Phila. county, Pa. Frt. equald. with N. Y. C. on all other destinations.

Chloride, anhyd., bbls., dlvd.....lb. .12¾- —
flake, bbls., c.l., works.....ton.40.00 - —
l.c.l., works.....ton.44.00 -46.00
Fluoride, bbls.....lb. .20 - .25
Hydroxide, medicinal, bbls., dms., kgs..lb. .29 - .30
Hypophosphite, cns.....lb. 1.45 - —
Laurate, bbls. .....lb. 46 - .47
Metal, 98.8%, ingots, cs., works...lb. .20½- —
sticks, cs. .....lb. 34 - .38
Oleate, precip., bbls.....lb. .43½- —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works.....lb. 1.00 - 1.05
Phosphate, tribasic, USP, bbls....lb. 62 - .67
Silicate (see Talc).
Silicofluoride, bbls., works.....lb. .10 - —
Stearate, ctns., 2,000 lbs. to c.l...lb. .48 - —
smaller lots .....lb. .49 - —
Sulphate (see Epsom salt).
Trisilicate, dms., 1,000 lbs.....lb. .37 - —
smaller lots.....lb. .42 - —
Magnesite, calcined, powd., bgs., c.l., mines, Calif....ton.60.00 - —
dead-burnt, bulk, c.l., Chewalah, Wash..ton.24.00 - —
Maleic anhydride, dms., c.l.....lb. .27½- —
l.c.l. .....lb. .28½- —
Malva flowers, blacks, bls.....lb. No stocks
Blue, bls. .....lb. 1.40 - 1.45
Leaves, bls .....lb. .40 - .41
Manaca root, bls.....lb. .49 - .50
Mandrake root, bls.....lb. .40 - .46
Manganese acetate, dms.....lb. .25½- —
Arsenate, bgs. .....lb. .12 - .12½
Borate, tech., bbls.....lb. .16 - .18
Carbonate, bbls. .....lb. .19 - —
Chloride, anhyd., dms., works....lb. 18 - .19
Dioxide, African, battery, 84%-87%, bbls., 28-40 tons, works..ton.74.00 - —
smaller lots, works..ton.77.00 -82.00
burlap bgs., c.l., works, ton.71.75 - —
l.c.l., works .....ton.74.75 -79.79
paper bgs., c.l., works, ton.70.00 - —
l.c.l., works .....ton.73.00 - —
85-90%, bbls., c.l., works..ton.74.00 - —
smaller lots, works.....ton.77.00 -82.00
Glycerophosphate, fib. dms.....lb. 4.25 - —
Hydrate, bbls., dlvd.....lb. .26 - —
Iodide jars .....lb. 5.55 - —
Linoleate, liquid, 4.35% Mn, dms..lb. .44¼- —
solid, precip., 8.2% Mn, bbls.....lb. .45¾- —
Metal, cs., dlvd. East.....lb. .30 - .32
Naphthenate liquid, 6% Mn, dms..lb. .21 - —
solid, 10% Mn, dms..... ....lb. .33½- —
Oleate, fused, bbls.....lb. .47½- —
Resinate, fused, 3½% Mn, bbls....lb. .09 - .10½
precip., dms.....lb. .29 - —
Sulphate, anhyd., dms., works....lb. No stocks
feed grade, 77-80%, bgs.....lb. .04 - .06
fertilizer grade, 65%, bgs., c.l., dlvd. E..ton.56.00 - —
l.c.l., dlvd. E. of Balto. or Cincinnati..ton.63.00 - —
industrial grade, 80%, bgs.....lb. .05 - .05¾
75%, bgs., c.l., dlvd. East....ton.64.50 - —
l.c.l., same basis.....ton.71.50 - —
Tallate, liquid, 4% Mn, dms.....lb. No prices
solid, 8% Mn, dms.....lb. No prices
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.60.00 - —
Manna, flake, large, cs.....lb. 1.75 - 2.00
small, cs.....lb. .80 - .85
Mannitol, com'l, bbls., works.....lb. .38 - .43
reagent, cs., works.....lb. .85 - —
Marjoram, Argentine, bls.....lb. .14 Nom.
Chilean, bls. .....lb. .15 - .16
futures, bls. .....lb. .14½- .15
French, bls., futures.....lb. .52 Nom.
Matico leaves, bls.....lb. .17 - .18
Menadione, USP, bots., works..gram. .10 - —

Menthol, natural, USP, Brazilian, cns..lb. 8.75 - 9.00
synthetic, tech., cns.....lb. 6.00 - 6.40
USP, laevo, cns.....lb. 8.90 - 9.95
racemic, cns.....lb. 7.60 - 8.00
Menthyl salicylate, tins.....lb. 3.00 - 3.10
Mercury bichloride (see Corrosive sublimate).
Bisulphate, dms.....lb. 2.13 - 2.15
Chloride (see Calomel).
Cyanide, cryst., powd.....lb. 3.27 - 3.32
Iodide, red, NF, dms.....lb. 4.17 - —
Yellow, NF, lib. dms.....lb. 4.27 - —
Metal (see Quicksilver).
Oxide, red, NF (see Red precipitate).
yellow, tech (see Yellow, mercury oxide)
USP, lib. dms.....lb 2.41 - 2.46
Mesityl oxide, dms., c.l., dlvd.....lb. 13 - —
l.c.l. dlvd. .....lb 13½- —
tanks, dlvd .....lb 11½- —
Metachloraniline, dms., works.....lb. .75 - —
Metacresol, 98%, dms., works.....lb. .55 - .65
Metanitroparatoluidin, bbls. .....lb. 1.21 - 1.22
Metanhenylenediamine, kgs.....lb .72 - —
Metatolylenediamine, kgs.....lb. 77 - —
Methanol, natural, all grades, group A, dms., extra, c.l., E. of Miss. gal. 63 - —
l.c.l., same basis.....gal. 73 - —
tanks, same basis.....gal. 60 - —
group B, dms., incl., c.l., frt. alld. gal. 67 - —
l.c.l., same basis.....gal. 78 - —
tanks, same basis.....gal. 60 - —

Prices on natural methanol W. of Miss. 3c. higher synthetic, dms., c.l., zone 1, frt. alld.

gal. .34½- .37½
2, frt. alld. or dlvd.....gal. .37½- .40½
3, frt. alld.....gal. .41½- .44½
4, frt. alld.....gal. .41½- .44½

Methanol, synthetic, dms., l.c.l., zone 1, frt. alld. or dlvd..gal. .37 - .46
2, frt. allo.....gal. .44 - .47
3, dlvd. S. F. and L. A.....gal. .42 - .45
4, frt. allo or dlvd.....gal. 52½- .55½
tanks, zone 1, frt. allo.....lb. .24 - .27
2, frt. allo.....gal. .27 - .30
3, frt. allo.....gal. .29 - .32
4, frt. allo.....gal. .29 - .32

Synthetic methanol zones are: Zone 1—Conn., Del., D. C., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb., N. H., N. J., N. Y., N. C., O., Pa., R. I., S. C., Tenn., Vt., Va., W. Va., and Wis. Zone 2—Ala., Ark., Col., Fla., Ga., Kan., La., Miss., N. Mex., N. Dak., Okla., S. Dak., Tex., and Wyo. Zone 3—Los Angeles and San Francisco. Zone 4—Ariz., Calif. (with exception of Los Angeles and San Francisco), Ida., Mont., Nev., Ore., Utah and Wash. Buyers in zone 4 have the option of buying at the delivered zone 4 price or at the zone 3 price, f.o.b. Los Angeles and San Francisco.

Methyl abietate, nor.-ret. dms., c.l., dlvd..lb. .14¾- —
l.c.l., dlvd. .....lb. .14¾- —
hydrogenated, non-ret. dms., c.l., dlvd..lb. .16¾- —
l.c.l., dlvd. .....lb. .17¼- —
Acetate, CP, 97-98%, dms., c.l., E of Miss..lb. .10½- .12
W. of Miss. .....lb. 11½- .12
l.c.l. E. of Miss .....lb. 11 - 14
W. of Miss.....lb. 12 - .13½
tanks, E. of Miss.....lb. 09½- —
W. of Miss.....lb. 10½- —
tech. dms., c.l., E. of Miss....lb. 07 - .09
W. of Miss .....lb 08 - —
l.c.l., E. of Miss.....lb 07½- .11
W. of Miss.....lb. 08½- .10½
tanks, E. of Miss.....lb. .06 - —
W. of Miss.....lb. 07 - —

Methyl acetoacetate, dms., c.l., frt. allo. E..lb. .42 - —
l.c.l., same basis.....lb. .42½- —
Methyl acetoacetate prices, frt. allo. W., ¼c. higher.
Acetone, natural, group A, dms., extra, c.l., E. of Miss., frt. allo.gal. .50 - —
l.c.l., same basis.....gal. .57 - —
Natural Methyl acetone group A prices W. of Miss. 3c. per gal higher.
group B, dms., incl., c.l., E. Miss., frt. allo..gal. .67 - —
l.c.l., same basis.....gal. .78 - —
tanks, same basis.....gal. .60 - —
synthetic, dms., c.l., works, frt. allo E. gal. 53¾- —
frt. allo. W..... ...gal. .56½- —
l.c.l., works, frt. allo. E..gal. .57 - —
frt. allo. W.....gal. .59 - —
tanks, works, frt. allo. E.....gal. .44½- —
frt. allo. W.....gal. 46½- —

Methyl acetone, synth. East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four

Alcohol (see Methanol).
Anthranilate, 500 lbs. or more....lb. 2.10 - —
smaller lots .....lb. 2.20 - 3.00
Benzoate, cns.....lb. .45 - 1.20
Bromide, cns.....lb. .63 - .65
cyls.....lb. .55 - .70
Chloride, indust., cyl., works...lb. .16 - —
tanks, multi-unit, works.....lb. .14¾- —
single-unit, works.....lb. .14 - —
refrigeration, indust. consumers, refrigeration machinery mfrs., cyls., dlvd..lb. .33 - —
retail refrigeration consumers or service men, cyls., dlvd..lb. .41 - —

Litharge—Methyl Chloride

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Methyl Cinnamate—Oil, Babassu

Methyl cinnamate, cns.....lb. 1.45 - 3.50
Formate, dms.....lb. .80 - —
Heptin carbonate, bots.....lb. 37.00 - 58.00
Iodide, bots.....lb. 3.00 - 3.25
Lactate, dms., l.c.l., works.....lb. .35 - —
Methacrylate, M-1, dms., works..lb. .45 - —
cns., works.....lb. .48 - .58
P-1, cns., works.....lb. .60 - —
Salicylate, dms., 500 lbs.....lb. .40 - —
25-50 lbs.....lb. .45 - —
Methylal, crude, dms., c.l., works...lb. .04 - —
l.c.l., works.....lb. .05 - —
tanks, works.....lb. .02 - —
refined, 95%, dms., c.l.....lb. .07 - —
l.c.l., works.....lb. .08 - —
tanks, works.....lb. .04½- —
Methylamyl ketone, cns., dms., works. lb. No stocks
Methylcellulose, special vis. (4,000 cps.), fib. ctns., 2,000 lbs. or more, frt. alld..lb. .70 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .80
standard vis. (15-1,500 cps.), fib. ctns., 2,000 lbs. or more..lb. .63 - —
smaller lots, frt. alld. on 100 lbs. lb. .68 - .73
Methylcyclohexane, 98-100%, dms., works..lb. .16 - —
Methylcyclohexanol, 98-100%, dms., works..lb. .23 - —
Methylcyclohexanone, 98-100%, dms., works..lb. No stocks
Methylene blue, tech. (see Dyes, coal-tar).
USP, 100-lb. lots, kgs., frt. equald. lb. 2.42 - —
50-lb. lots, kgs., same basis..lb. 2.52 - —
25-lb. lots, kgs., same basis..lb. 2.57 - —
Methylene chloride, indust., dms., c.l., dlvd. E..lb. .12½- —
l.c.l., dlvd., E.....lb. .13½- —
tanks, dlvd., E.....lb. .11½- —
Methyleneanilin, dms., ton lots, frt. alld..lb. .36 - —
smaller lots, same basis.....lb. .37 - —
Methylethyl ketone, dms., dlvd.....lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —
Methylhexyl ketone, tech., dms., works. lb. .60 - —
Methylionone, A, cns.....lb. 6.55 - 8.80
D, cns.....lb. 7.50 - 9.55
prime, cns.....lb. 4.55 - 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Methylisobutyl ketone, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd.....lb. .14½- —
tanks, dlvd.....lb. .12½- —
Methylnaphthyl ketone, cns.....lb. 3.00 - 3.75
Methylpentanediol, dms., works, dlvd. lb. .21½- —
l.c.l., works, dlvd.....lb. .22½- —
tanks, works, dlvd.....lb. .20 - —
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works..lb. .03⅜- —
roofing, 20 to 80 mesh, works....lb. .03⅜- —
wet-grd., biotite, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
extra fine, bgs., c.l., works, frt. alld. E..lb. .05½- —
l.c.l., ex whse. or frt. alld. E. lb. .06¼- —
Mica, wet-grd., paint or lacq., bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E..lb. .07½- .07¾
rubber, bgs., c.l., works, frt. alld. E..lb. .06¾- —
l.c.l., ex whse. or frt. alld. E. lb. .07¼- .07½
wallpaper, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07½- .07¾
white, extra fine, bgs., c.l., works, frt. alld. E..lb. .07 - —
l.c.l., ex whse. or frt. alld. E. lb. .07¾- —
Mica, wet-grd. W. of Miss R., ½c. higher, W. of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l..lb. .15¾- .16¼
spray, bbls., c.l.....lb. .16¾- .17¼
Whole, roller, bbls., c.l.....lb. .41 - .45
spray, bbls., c.l.....lb. .41½- .45
Sugar, edible, bbls., works, 30,000-lb. lots..lb. .24 - —
2,000-lb. lots.....lb. .24¾- —
200-1,800-lb. lots.....lb. .25¼- —
USP, bbls., works, 3,000-lb. lots.lb. .26 - —
2,000-lb. lots.....lb. .26¾- —
200-1,800-lb. lots.....lb. .27¼- —
Mineral spirits (see Petroleum, mineral spirits).
Molasses, blackstrap, tank, U. S. port..gal. .37 - —
Molybdate orange (see Orange, molybdate).
Molybdenum metal, 99% Mo. powd., kgs..lb. 2.60 - 3.00
Trioxide, pure, kgs., works, basis Mo. content..lb. .95 - —
technical, kgs., works, basis Mo. content..lb. .80 - —
Monochlorobenzene, dms., c.l., works, frt. equald..lb. .06 - .07¼
l.c.l., works.....lb. .06½- .08½
smaller containers, works.....lb. .09 - .10
tanks, works, frt. equald.....lb. .05½- .06½
Monoethanolamine, dms., c.l., frt. alld. E..lb. .25½- —
l.c.l., same basis.....lb. .26½- —
smaller containers, same basis....lb. .29½- —
tanks, same basis.....lb. .24 - —
Monoethylamine, dms., c.l., wks. basis 100%..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .20 - —
Monomethylamine, anhydrous, cyl., works, basis 100%..lb. .34½- .44½
25%-40%, dms., c.l., same basis..lb. .34 - —
tanks, same basis.....lb. .30 - —
Monomethylpara-aminophenol sulphate, dms..lb. 2.40 - 2.90
Monononylnaphthalene, tanks, wks.lb. .16 - —
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Morphine, cns., 25 ozs.....oz. 12.40 - —
Acetate, cns., 25 ozs.....oz. 9.90 - —
Hydrobromide, cns., 25 ozs.....oz. 9.80 - —
Hydrochloride, cns., 25 ozs.....oz. 9.90 - —
Sulphate, cns., 25 ozs.....oz. 9.90 - —
Morpholine, dms., l.c.l., works....lb. .67 - —
smaller containers, works.....lb. .75 - —
Mountain ash berries, bgs.....lb. .75 - .76
Mullein leaves, bls.....lb. 12 - 13
Musk, nat., Tonquin, grains, bots..oz. 38.00 - 55.00
synthetic, ambrette, cns., 5-lb..... 8.00 - 14.25
Ketone, cns., 100 lbs. or more..lb. 4.60 - 4.95
25 lbs.....lb. 4.70 - 5.05
5 lbs.....lb. 4.60 - 5.20
Xylol, cns.....lb. 1.60 - 1.80
25 lbs.....lb. 1.70 - 1.90
5 lbs.....lb. 1.80 - 2.00
Mustard seed, Calif., brown.....lb. .18½- .19
Mustard seed, Calif., brown.....lb. .20 - .21
Danish, yellow, bgs.....lb. .15½- .16
Dutch, yellow, bgs.....lb. .15½- .16
futures, bgs.....lb. .17 - .17½
Montana, brown, bgs., source...lb. .12½- .13
Oriental, bgs.....lb. .07½- .08
new crop futures, source....lb. .07½- .08
yellow, bgs., new crop, source..lb. .15½- .16
Washington, yellow, bgs.....lb. .16 Nom.
Myrobalans, J1, good quality, ex dock. ton. 51.00 - 55.00
J2, ex dock.....ton. 47.00 - 48.00

N

Naphtha, painters (see Petroleum naphtha, V. M. & P.).
Solvent (see 8).
Naphthalene, dom., crude, 74°, bgs., tanks, same basis..lb. .05¾- .06¼
78°, bbls., c.l., same basis....lb. .06¾- —
l.c.l., same basis.....lb. .06¾- .07
tanks, same basis.....lb. .05½- .06
refined, industrial, bbls.....lb. .10½- —
bgs., c.l., same basis.....lb. .08¾- —
tanks, same basis.....lb. .08¾- .09¼
balls, flakes, wholesalers, jobbers, 50-lb. cs., c.l., same basis..lb. .12 - .12½
1-lb. pkgs., c.l., same basis..lb. .13 - .13½
Neocinchopen, USP, dms., works..lb. 7.00 - 7.10
Nepheline syenite, glass, 24 mesh, bulk, Rochester, N. Y.....ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N. Y...ton. 18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Neralin, grys., cns.....lb. 1.70 - 2.00
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide)
Nickel, carbonate, bbls.....lb. .41 - —
Chloride, bbls.....lb. .21½- —
Crumble, bots., dms.....lb. 1.75 - 2.00
Metal, electro cathodes, cs.....lb. .32¾- —
Oxide, black, bbls.....lb. .35 - .38
Sulphate, bbls.....lb. .15 - .15½
Nicotinamide hydrochloride, USP, dms., works..kilo. 9.00 - 9.30
Nicotine sulphate, 40%, dms., dealers, frt. alld. over 50 lbs..lb. .988 - —
ctns. dealers.....lb. 1.105 - —
Nikethamide, bots, cbys.....lb. 5.50 - 6.60
Nitercake, bulk, works.....ton. 20.00 - 24.00
Nitrobenzene, dbl. dist., dms., c.l..lb. .08½- .08¾
l.c.l.....lb. .09½- .10
tanks.....lb. .07½- .07¾
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, 5-6, 15-20, 30-40, and 60-80 secs., bbls., c.l., works, dry weight..lb. .26 - —
l.c.l., same basis.....lb. .27 - .29
18-25 cps., 125-175 secs., bbls., c.l., same basis..lb. .28 - —
l.c.l., same basis.....lb. .29 - .31
250-400 secs. and 600-1,000 secs., bbls., c.l., same basis..lb. .31 - —
l.c.l., same basis.....lb. .32 - .34
spirit-soluble, 30-35 cps., ¼, ½, 5-6 and 40-60 secs., bbls., c.l., same basis..lb. .32 - —
l.c.l. same basis.....lb. .34 - .35
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Barrels extra, but returnable.
Nitrogen solution, tanks, works, N.ton. 107.00 - —
Nitrogenous process tankage, bulk, works, ammo. unit ton. 5.00 - —
Sewage sludge, bulk, works, unit ton. 4.15 + 10-
Nitromethane, dms., c.l., works....lb. .25 - —
Nitronaphthalene, bots.....lb. .24 - .25
Nitropropane, 1, dms., works.....lb. .25 - —
2 dms., works.....lb. .25 - —
Nonylnaphthalene blend (mono and di), tanks, works..lb. .14 - —
Nutgalls, Aleppo, bgs.....lb. .50 - —
Chinese, bgs.....lb. .14 - —
Istrian, bgs.....lb. .29 - —
Nutmegs, East Indian, bgs., futures, afloat..lb. .60 - .62
West Indian, bgs.....lb. .59 - .60
futures.....lb. .58 - .59
Nux vomica, bls.....lb. .09 - .10
powdered, bbls., bxs.....lb. .12 - .13

O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks
Octane, 100°-140° C, industrial grade, dms., c.l., group 3..gal. .19 - —
l.c.l.....gal. .21 - .60
tanks, group 3.....gal. .15½- —
Octanol (see Alcohol, ethylhexyl).
Oil, almond, bitter, artificial (see Benzaldehyde).
Bitter, F.P.A., bots.....lb. 4.45 - 5.00
NF, bots.....lb. 4.90 - —
Sweet, dms., cns.....lb. .80 - 1.30
Angelica root, bots.....lb. 120.00 - 250.00
Seed, bots.....lb. 170.00 - 200.00
Anilin (see A).
Anise, USP, Chinese, dms.....lb. .90 - 1.25
Russian, cns.....lb. 3.25 - 3.75
Apricot kernel, cns.....lb. .65 - .85
Avocado, cns., dms.....lb. 1.00 - 1.10
Balsam, tanks.....lb. .23 Nom.

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LEATHER
THAT SMELLS BETTER . . . SELLS BETTER
SOLVENTS
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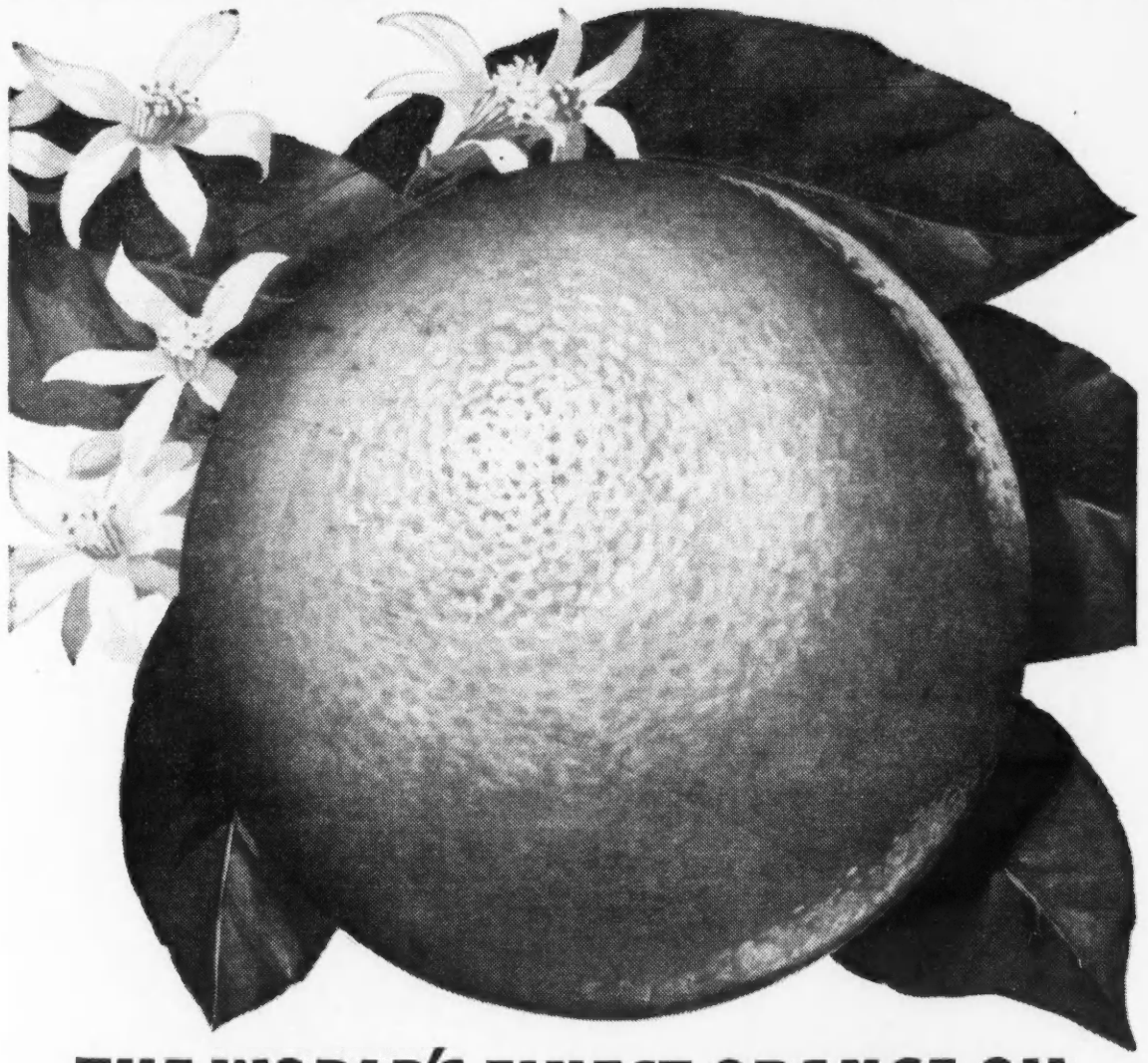
Oil, bay, NF, Puerto Rican, 50-55%, cns..lb. 1.20 - 2.25
55-60%, cns.....lb. 1.20 - 2.35
60-65%, cns.....lb. 2.50 - —
West Indian, 50-55%, cns.....lb. 1.20 - 1.65
Bergamot, artif., cns.....lb. 3.50 - 4.25
natural, Italian, cns.....lb. 5.00 - 6.00
Birch (see Oil, sweet birch).
Birchtar, crude, cns.....lb. .95 - 1.76
rectified, cns. .....lb. No stocks.
Bois de rose, Brazil, cns.....lb. 2.00 - 4.00
Mexican (see Oil, lignaloe wood).
Bone dms., works.....gal. .65 - .70
Cajeput, tech., dms.....lb. 2.35 - 2.45
redistilled, USP 1X, cns.....lb. 2.75 - 3.25
Calamus, cns. .....lb. 20.00 -28.00
Camphor, natural, white, cns.....lb. .60 - .75
synthetic, dms.....lb. .15 - .40
Cananga, natural, cns.....lb. 6.00 - 9.10
rectified, cns. .....lb. 8.00 -12.60
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns.....lb. 5.15 - 6.50
Cardamom, bots. .....lb. 20.00 -31.50
Cassia, USP, cns.....lb. 2.40 - 3.75
Castor, blown, ref. dms., c.l.....lb. .29 - .29½
l.c.l. .....lb. .30 - .30½
cold-pressed, USP, ref. dms., c.l., lb. .27½- —
l.c.l. .....lb. .28½- —
tanks .....lb. .26 - .26½
dehydrated, bodied, dms., c.l.....lb. .29½- —
l.c.l. .....lb. .30½- —
tanks .....lb. .29 - —
unbodied, dms., c.l.....lb. .28½- —
l.c.l. .....lb. .29½- —
tanks .....lb. .28 - —
No. 3, tech., dms., c.l.....lb. .26½- —
l.c.l. .....lb. .27½- —
tanks .....lb. .25½- —
sulphonated, 50% (48% fat), dms. lb. .15½- .16½
75% (69-72% fat), dms.....lb. .22 - .23
Cedarleaf, USP, cns., dms.....lb. 2.15 - 2.85
Cedarwood, cns.....lb. 65 - .95
dms. .....lb. 61 - .86
Celeryseed, bots. .....lb. 15.00 -20.00
Chaulmoogra, NF, cns., dms.....lb. 56 - —
Chinawood (see Oil, tung).
Cinnamon bark, bots.....lb. 52.50 -62.00
Leaf, Ceylon.....lb. 1.50 - —
Seychelle .....lb. 1.20 - —
Citronella, Ceylon, cns.....lb. .90 - 2.75
Java, cns. .....lb. 1.40 - 4.75
Clove, USP, cns.....lb. 1.30 - 1.70
Coconut, crude, tanks, Atlantic ports, lb. .20 - —
Pac. coast .....lb. .19 - —
refined, Cochin type, tax incl., dms., l.c.l..lb. .35½ Nom.
deodorized, tax incl., dms., l.c.l. lb. .33 - .33½
Cod, Newfoundland, dms.....lb. .22 - .24
Codliver, USP, dms.....gal. 2.55 - 2.60
Coriander, bots. .....lb. 30.00 -36.00
Corn, crude, tanks, works.....lb. .25 - —
foots, acid, 95%, tanks, dlvd. E. lb. .13½- —
raw, 50%, tanks, dlvd. E....lb. .06½- —
refined, tanks, works.....lb. .30 Nom.
Cottonseed, crude, tanks, works...lb. .22 - —
foots, acid 95%, tanks, dlvd. E. lb. .14 - —
raw, 50%, tanks, divd. E.....lb. .07 - —
deodorized, winterized, salad, dms., c.l...lb. .31 Nom.
l.c.l. .....lb. .32 - .34
tankcars .....lb. .30 Nom.
Creosote (see Creosote, coaltar).
Croton, NF, cns.....lb. 4.75 - 5.50
Cubeb, USP, cns.....lb. 6.75 -10.00
Crude (see Petroleum, crude).
Cumin, bots. .....lb. 6.25 -11.50
Cypress, bots. .....lb. 11.00 -15.00
Degras (see Dr).
Dillseed, bots.....lb. 6.00 - 7.00
Dillweed, bots. .....lb. 6.00 - 8.25
Dip (see Dr).
Erigeron, USP, cns.....lb. 2.30 Nom.
Eucalyptus, rect., USP, 80-90%, cns. lb. 1.05 - 1.4
70-80%, cns. .....lb. .90 - 1.30
Fennel, sweet, cns. .....lb. 3.65 - 4.50
Fir, Canada, cns.....lb. 2.65 - 3.25
Fishliver, concentrating or feed, 6,000 to 12,000 A units, dms.... 1,000,000 units. .22½- —
20,000 to 80,000 A units, dms. 1,000,000 units. .29 - .31
pharmaceutical, 50,000 to 125,000 A units, dms..1,000,000 units. .32 - .35
pharmaceutical or food, 200,000 A units, dms..1,000,000 units. .36 - .38
concentrate, 100,000 A units, dms. 1,000,000 units. .36 - .37
200,000 A units, dms. 1,000,000 units. .38 - .39
500,000 A units, dms. 1,000,000 units. .43 - .43½
1,000,000 A units, dms. 1,000,000 units. .45 - —
Fuel (see Petroleum, fuel oil).
Garlic, pure, bots.....oz. 15.00 - —
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns.....lb. 15.25 -21.00
Bourbon, cns.....lb. 11.50 -14.50
Russian, cns.....lb. No stocks
Turkish (see Oil, palmarosa).
Ginger, dist., bots.....lb. 8.00 -13.00
Grapefruit, Florida, cns.....lb. 1.35 - 2.50
California, bots., cns.....lb. 1.30 - 2.00
Grease, No. 1, dms.....lb. .28 - .29
extra, winter, strained, dms.....lb. .29 - .30
prime, burning, dms.....lb. .30 - .31
Guaiacwood, cns. .....lb. 2.05 - 4.15
Hemlock, cns.....lb. 2.25 - 2.75
Herring, crude, tanks, Pac. coast..lb. No prices
Juniper berry, dom., bots.....lb. 6.35 -12.50
imported, USP.....lb. 7.50 -12.00
Tar, USP (see Juniper tar).
Wood, tech., cns.....lb. .65 - 1.00
Lard (see Oil, grease).
Laurel, bots. .....lb. 20.00 Nom.
Lavandin, cns. .....lb. 2.25 - 3.75
Lavender flower, French, 38-42° ester. lb. 6.25 -10.15
30-32% ester .....lb. 4.25 - 8.00
Russian, 25-lb. .....lb. 11.75 - —
Spike, Spanish, pure, cns.....lb. 1.50 - 2.25
tech., cns. .....lb. 1.75 - 2.75
Lemon, natural, USP, Calif., cns..lb. 3.10 - 3.60
Messina, cns.....lb. 3.50 - 4.05
terpeneless, bots. .....lb. 40.00 -50.00
Lemongrass, cns., dms.....lb. 1.55 - 2.50
Lignaloe seed, Mexican, cns.....lb. 4.50 - 4.80
Wood, Brazilian (see Oil, bois de rose)
Mexican, cns. .....lb. 3.50 - 5.20
Lime, distilled, Mexican, cns.....lb. 3.75 - 5.15
West Indian, cns.....lb. 4.25 - 6.30
expressed, West Indian, cns....lb. 9.50 -11.75
terpeneless, bots. .....lb. 35.00 -42.00
Linseed, raw, dms., c.l.....lb. .3220- —
l.c.l. .....lb. .3270- .3330
tankcars .....lb. .3120- —
tankwagon .....lb. .3150- —
Boiled linseed oil .007 higher than raw
Linseed replacement, dms.....lb. .2780- .2850

Oil, lubricating, at refinery, ex tax.
Group 3, bright stock, 150-160 vis., 10-25 p.p. tanks..gal. .285 - —
neutral, 300 vis., No. 3, col., 0.10 pour, tanks..gal. .21 - .23
200 vis., No. 3, col., 15-25 pour, tanks..gal. .18 - .19
145-155 vis., No. 3, color, 10-25 pour, tanks..gal. .285 - —
Penna., W., cylinder, 600-680 flash, tanks..gal. .33 - .38
600-650 steam refd., tanks, gal. .37 - —
neutral, 70° F., No. 3 color, 150 vis., 25 pour, tanks..gal. .37 - .39
200 vis., 25 pour, tanks.gal. .39 - .41
South Texas, neutral, pale 200 vis., 2½-4 pour, tanks..gal. .11 - .12
red, 200 vis., 4-6½ pour, tanks..gal. .11- .12⅛
Mace, dist., cns., dms.....lb. 5.20 - 8.75
Mandarin, Brazilian, cns.....lb. 5.75 - 8.40
Italian, cns.....lb. 8.50 -10.00
Menhaden, crude, tanks, Balto....lb. .22 Nom.
refined, alkali, dms., l.c.l.....lb. .2630- —
kettle-bodied, dms., l.c.l.....lb. .2860- —
light-pressed, dms., l.c.l.....lb. .2540- —
tanks .....lb. .24 - —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard, synthetic, USP, cns.....lb. 1.45 - 1.70
Seed, exp., dms.....lb. .29½ Nom.
Neatsfoot, 15°, dms.....lb. .42 - .42½
20°, dms. .....lb. .40 - .40½
30°, dms. .....lb. .37 - .37½
Neroli, French, bots.....lb. 195.00 -300.00
Haitian, bots.....lb. 180.00 -200.00
Nutmeg, dist., cns.....lb. 5.00 - 8.75
Ocotea cymbarum, dms.....lb. .75 - 1.15
Oiticica, liquid, dms., c.l.....lb. .25½ Nom.
l.c.l. .....lb. .26 Nom.
tanks .....lb. .25 Nom.

Oil, oleo, extra, tcs., Chicago.....lb. .30 Nom.
Olibanum, bots. .....lb. 4.50 - 6.25
extra fine.....lb. 6.25 -10.50
Olive, denat., dms.....gal. No stocks
edible, Calif., dms.....gal. 5.25 Nom.
imported, dms.....lb. 5.25 - 5.50
foots, dms., c.l.....lb. No prices
tankcars .....lb. No prices
sulphonated, 50% (40% fat), dms., c.l..lb. No stocks
l.c.l. .....lb. No stocks
75% (62% fat), dms., c.l.....lb. No stocks
l.c.l. .....lb. No stocks
Orange, sweet, natural, dist., cns. lb 80 - 1.25
expressed, USP, Brazilian, cns. lb. 1.40 - 1.95
Calif., cns.....lb. 1.70 - 2.10
Florida, cns., dms.....lb. 1.40 - 1.85
Messina, coppers .....lb. 4.50 - 6.25
West Indian, cns.....lb. 2.25 - 3.75
sesquiterpeneless, bots.....lb. 80.00 -135.00
Origanum, Spanish, cs.....lb. 3.20 - 3.50
Palm, Niger, dms.....lb. No prices
Palmarosa, cns.....lb. 6.00 - 9.00
Palmkernel, crude, bulk, c.l.f., N. Y. lb. No prices
Paraffin, pale, 100-110 vis. at 100° F, tanks, works..gal. .10 - —
Patchouli, cns.....lb. 11.50 -45.00
Peanut, crude, tanks, works.....lb. .23 - —
foots, acid, 95%, tanks, dlvd. E..lb. .14 Nom.
raw, 50%, tanks, dlvd. E....lb. .07 Nom.
refined, tanks, mills.....lb. .30 Nom.

Oil, pennyroyal, USP, dom., dms., ons. lb. No stocks
import, cns.....lb. 3.00 - 5.00
Peppermint, natural, dms.....lb. 7.35 - 8.75
redist., USP, dms.....lb. 8.25 - 9.25
Perilla, crude, dms.....lb. No stocks
Petitgrain, Paraguay, cns.....lb. 3.15 - 4.30
Pimento berry, dms.....lb. 4.25 - 6.50
leaf, cns.....lb. 1.75 - 3.25
Pine, dest. dist., dms. incl., c.i., works, South..gal. .70 - —
l.c.l., works, East.....gal. .79 - —
tanks, works, South.....gal. .61 - —
steam-dist., dms., ex whse., East.lb. .11 - —
non-ret. dms., incl., l.c.l., ex whse, N.Y.C..gal. .80 - —
Pineneedle, Canadian, 25-lb. cans..lb. 2.20 - —
Siberian, cns. .....lb. 3.05 - 3.75
Swiss, 25-lb. cans.....lb. 4.00 -14.50
Putty, petroleum, heavy, dms...gal. .18 - —
tankwagon .....gal. .13½- —
light, dms.....gal. .16½- —
tankwagon .....gal. .12½- —
Rapeseed, tankcars.....lb. .32 - —
Red, single dist., dms.....lb. .31½- .32¾
tanks .....lb. .30½- —
double dist., dms.....lb. .34½- .35¼
tanks .....lb. .33 - —
Rose, natural, coppers.....oz. 16.00 -40.50
Rosemary, Spanish, tech., cns., dms. lb. .90 - 1.50
USP, cns., dms.....lb. 1.15 - 1.60
Rosin, 1st rectified, dms.....gal. .66 - —
2d rectified, dms.....gal. .68 - —
3d rectified, dms.....gal. .78 - —
Rue, bots.....lb. 4.65 - 5.50
Sage, Dalmatian, cns.....lb. 4.50 - 5.55
Spanish, cns. .....lb. 1.90 - 3.50
Sandalwood, NF, Mysore, cns....lb. 13.75 -22.50



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Exchange
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ORANGE
U. S. P.

Oil, Sardine—Penicillin

Oil, sardine, crude, tanks, Pac. coast,	lb.	.24 Nom.
refined, alkali, dms., l.c.l.	lb.	.2690- —
kettle-bodied, dms., l.c.l.	lb.	.2860- —
light-pressed, dms., l.c.l.	lb.	.2540- —
tanks	lb.	.24 - —
Sassafras, artificial	lb.	.80 - 1.25
natural, Brazilian (see Oil, ocotea cymbarum).		
domestic, USP XII, cns., dms.	lb.	1.90 - 2.30
Savin, cns.	lb.	5.00 -13.50
Savory, cns.	lb.	8.00 - —
Seal, No. 1, tanks, U S ports	lb.	No prices
Sesame, tanks	lb.	No prices
Shingle stain, bbls., c.l., works	gal.	.2185- —
l.c.l., works	gal.	.25 - .29
tanks, works	gal.	.15 - .16
Snakeroot, Canada, cns.	lb.	17.50 -21.00
Soybean, crude, tanks, mills	lb.	.17½- —
foots, acid, 95%, tanks, dlvd. E.	lb.	.14 - —
raw, 50%, tanks, dlvd. E.	lb.	.07 - —
refined, alkali, dms., c.l.	lb.	.29½- —
l.c.l.	lb.	.3040- .3080
tanks	lb.	.2775 Nom.
clarified, dms., c.l.	lb.	.2735 Nom.
l.c.l.	lb.	.2790- .2830
tanks	lb.	.2625 Nom.
winterized, ref., tankcars, works.	lb.	.22 Nom.
Spearmint, dms.	lb.	8.25 -10.00
Sperm, bleached, 38°, dms.	lb.	2670- —
natural, 45°, dms.	lb.	.25½- —
Spruce, cns., dms.	lb.	2.25 - 2.75
Sunflower-seed, imp., refined, tanks,	lb.	No prices
semi-refined, tanks	lb.	No prices
Sweet birch, Northern, cns.	lb.	4.50 - 8.00
Southern, cns.	lb.	2.50 - 3.25

T

Oil, tall, crude, tanks, works	ton.	40.00 -45.00
refined, dms., c.l., works	lb.	.06¾- —
l.c.l., works	lb.	.07¼- —
tanks, works	lb.	.05¾- —
Tallow, acidless, dms.	lb.	.26 - .26½
Tansy, cns.	lb.	9.75 -14.00
Tar, pine, crude, dms., incl., c.l., works, South.	gal.	.39 - .41
l.c.l., works, South	gal.	.40½- .43
whse., N.Y.C.	gal.	.50¼- .52¼
tanks, works, South	gal.	.30 - .32
rectified, USP, l.c.l., dms., incl., works, South.	gal.	.60 - —
Tar acid (see T).		
Thyme, NF, red, cns.	lb.	2.60 - 3.35
white, cns.	lb.	2.85 - 3.80
technical, white, cns.	lb.	.35 - 1.00
Tung, dms., c.l.	lb.	.27 Nom.
l.c.l.		.27½- .28
tanks	lb.	.25¼- .27½
Turkey red (see Oil, castor, sulphonated.		
Turpentine, rectified, NF cns., dms.	lb.	.35 - .50
Vetiver, Bourbon, cns.	lb.	27.00 -38.00
Haitian	lb.	27.00 -33.00
Whale, ref., natural, dms.	lb.	No stocks
Winter-bleached, dms.	lb.	No stocks
Wheat germ, dms.	gal.	10.00 -13.50
White mineral, tech., 50 vis., non-ret., dms., c.l., San Francisco.	gal.	.51½- —
l.c.l., S.F.	gal.	.53½- .56½
60-65 vis., dms., c.l., N. Y.	gal.	.48 - —
l.c.l., N.Y.	gal.	.51 - .55
65-75 vis., dms., c.l., N. Y.	gal.	.51 - —
l.c.l., N.Y.	gal.	.54 - .58
70 vis., non-ret. dms., c.l., S.F.	gal.	.51½- —
l.c.l., S.F.	gal.	.53½- .56½
Oil, white, mineral, USP, 80-90 vis., dms., c.l. N. Y.	gal.	.55 - —
l.c.l., N.Y.	gal.	.58 - .62
85 vis., non-ret. dms., c.l., S.F.	gal.	.51½- —
l.c.l., S.F.	gal.	.53½- .56½
100 vis., non-ret. dms., c.l., S.F.	gal.	.59 - —
l.c.l., S.F.	gal.	.61 - .64
125-135 vis., dms., c.l., N.Y.	gal.	.67 - —
l.c.l., N.Y.	gal.	.70 - .74
145 vis., non-ret. dms., c.l., S.F.	gal.	.68 - —
l.c.l., S.F.	gal.	.70 - .76
145-155 vis., dms., c.l., N.Y.	gal.	.69 - —
l.c.l., S.F.	gal.	.72 - .76
175-185 vis., dms., c.l., N. Y.	gal.	.72 - —
l.c.l., N.Y.	gal.	.75 - .79
180 vis., non-ret. dms., c.l., S.F.	gal.	.70 - —
l.c.l., S.F.	gal.	.72 - .75
200-210 vis., dms., c.l., N.Y.	gal.	.76 - —
l.c.l., N.Y.	gal.	.79 - .83
335-345 vis., dms., c.l., N.Y.	gal.	.84 - —
l.c.l., N.Y.	gal.	.87 - .91
340 vis., non-ret. dms., c.l., S.F.	gal.	.83 - —
l.c.l., S.F.	gal.	.85 - .88
Wintergreen, natural, Northern, cns.	lb.	6.35 -17.25
Southern, cns.	lb.	3.65 - 6.50
synthetic (see Methyl salicylate).		
Wood (see Oil, tung).		
Wormseed, NF, cns.	lb.	4.25 - 5.50
Wormwood, cns.	lb.	8.75 -13.50
Ylang-Ylang, Bourbon, extra, bots.	lb.	14.00 -25.00
first, bots.	lb.	12.50 -14.50
second, bots.	lb.	7.50 - 9.50
third, bots.	lb.	5.25 - 7.50
Oleostearin, tres.	lb.	.27 Nom.
Olivine, aggregate, c.l., mines	ton.	7.00 - 9.50
crushed, 8 mesh, bulk, c.l., works.	ton.	10.00 - —
paper, bgs., c.l., works	ton.	12.00 - —
lumps, bulk, c.l., works	ton.	7.00 - —
Opium, USP, cns.	lb.	21.30 -21.55
gran., USP, cns.	lb.	22.70 -22.95
powd., USP, cns.	lb.	22.70 -22.95
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies.	lb.	1.00 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., includ. Davenport, Tenn. and N. C., E. of Minneapolis, Rock Island, St. Louis, St. Paul, contracts.	lb	26 - —

Chrome orange prices are ½c. higher, dlvd. Ark., Fla., Ga., La. (Shreveport); 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex.; 1½c. El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

Dinitroaniline toner	lb.	1.15 - —
Molybdate, bbls.	lb.	.59 - —
Orthonitroaniline toner, bbls., kgs., works.	lb.	.90 - .95
Persian, bbls.	lb.	.30 - .45
Orange flowers, bls.	lb.	.46 - .48
Orange mineral, American, bbls., 5 tons, ship't point, frt. alld.	lb.	.20½- —
smaller lots, bbls., same basis.	lb.	.21 - —
Orange peel, bitter, Haitian, bls.	lb.	.13 - .14
Sweet, bls.	lb.	.14 - .16
Oregano, Mexican, bgs.	lb.	.15½- .16
Portuguese, bgs.	lb.	.14½- .15
Spanish, bgs.	lb.	.20 - .21
Orris root, Florentine, bls.	lb.	.33 - .34
powdered, bbls., bxs.	lb.	.36 - .37
Verona, bls.	lb.	.22 - .23
powdered, bbls., bxs.	lb.	.24 - .25
Orthoaminobiphenyl dms., c.l., works.	lb.	.21 - —
l.c.l., same basis	lb.	.23½- —
tanks, same basis	lb.	.22 - —
Orthoamylphenol, dms., l.c.l., works.	lb.	.42 - —
Orthoanisidin, bbls.	lb.	.80 - —
Orthochloroaniline, dms., 10,000 lbs. or more.	lb.	.60 - —
smaller lots	lb.	.62 - .67
Orthochloroparanitroaniline, dms., works.	lb.	.57½- —
Orthochlorophenol, dms.	lb.	.28 - —
Orthocresol, pure, 30°, dms., c.l., works.	lb.	.33 - .33½
l.c.l., works	lb.	.33½- .34
tech., 29°-30°, dms., c.l., works.	lb.	.32 - —
l.c.l., works.	lb.	.32½- —
26°-27°, dms., c.l., works.	lb.	.26½- —
l.c.l., same basis.	lb.	.26¾- —
tanks, same basis.	lb.	.25½- —
Orthodichlorobenzene, dms., c.l., wks., frt. alld. E. of Rockies.	lb.	.07½- .08
l.c.l., same basis.	lb.	.09½- .10½
tanks, same basis.	lb.	.07 - —

Orthodichlorobenzene prices W. of Rockies 1c. per lb. higher.

Orthoisopropyl N-phenylcarbamate (see IPC).		
Orthonitroaniline, dms.	lb.	.50 - .53
Orthonitrochlorobenzene, dms.	lb.	.15 - .18
Orthonitrobiphenyl, tech., dms., c.l., works.	lb.	.12 - —
l.c.l., works.	lb.	.13 - —
Orthonitroparachlorophenol, cns.	lb.	.75 - —
Orthonitrophenol, dms.	lb.	.06 - —
Orthonitrotoluene, dms.	lb.	.08 - .09
Orthophenetidin, dms.	lb.	.90 - —
Orthotolidin, distilled, kgs.	lb.	1.00 - —
Orthotoluidin, dms.	lb.	.18 - .21
Osage orange crystals, bbls., l.c.l.	lb.	.33½- —
Extract, liquid, bbls., l.c.l.	lb.	.15½- —
Ouabaine, USP, bots.	gram	3.00 - 4.00
Oxyquinolin sulphate, cns., 100 lbs., works	lb.	6.40 - —
smaller lots, works	lb.	6.55 - 7.40

P

Papain, powd., cs.	lb.	5.50 - 6.50
Papaverine, natural or synthetic, hydrochloride, N.F., cns., 1,000-oz. lots.	oz.	6.60 - —
smaller lots	oz.	6.30 - 6.50
Sulphate, cns.	oz.	7.10 - 7.35
Paprika, Chilean, bgs.	lb.	.32 - .33
Portuguese, bgs.	lb.	.39 - .40
Spanish, bgs.	lb.	.39 - .42
Para-anisidin, dms., works.	lb.	.75 - —
Parachlorophenol, dms., c.l., works.	lb.	.27 - —
l.c.l., works	lb.	.28 - .33
Parachloroaniline, dms., frt. alld. E. Miss.	lb.	.70 - —
Paracresol, 98%, dms., works.	lb.	.45 - —
Paracymene, dms., c.l., works.	lb.	.1595- —
l.c.l., works.	lb.	.1645- —
tanks, works.	lb.	.1545- —
Paradibromobenzene, bgs., 500-lb. lots, works.	lb.	.45 - —
Paradichlorobenzene, dms., c.l., works.	lb.	.12½- .13½
l.c.l., same basis.	lb.	.14 - .15½
Paraffin, crude, scale, white or yellow, 124-126 ASTM, bbls., c.l., refinery.	lb.	.0725- —
fully ref'd, slabs, 123-125 ASTM, loose, c.l., refy.	lb.	.0750- —
125-127 ASTM, loose, c.l., refy.	lb.	.0750- —
128-130 ASTM, loose, c.l., refy.	lb.	.0780- —
131-133 ASTM, loose, c.l., refy.	lb.	.0805- —
134-135 ASTM, loose, c.l., refy.	lb.	.0820- —
135-137 ASTM, loose, c.l., refy.	lb.	.0845- —

Prices in bags ¾c. lb. higher; l.c.l. prices 2c. lb. higher.

Paraformaldehyde, dms., 1,000 lbs., works.	lb.	.23 - —
smaller lots, works.	lb.	.24 - —
Paraldehyde, tech., 98%, 55 gals., dms., l.c.l., works.	lb.	.12½- .13½
5-10-gal. dms., l.c.l., works.	lb.	.16½- —
tanks, works.	lb.	.11 - —
USP, chys.	lb.	.37 - .40
Paranitroaniline, kgs., works.	lb.	.43 - —
Paranitrochlorobenzene, kgs., works.	lb.	.15 - —
Paranitrophenol, kgs., works, frt. equald.	lb.	.40 - —
Paranitrotoluene, kgs., works.	lb.	.30 - —
Paraphenylphenol, bgs., works.	lb.	.25 - .26
Paraphenylenediamine, tech., kgs., works.	lb.	1.30 - —
Para-tertiary-butylphenol, bgs., works.	lb.	.19 - .20
Paratoluenesulphonamide, bbls., works.	lb.	.70 - —
Paratoluidin, bbls., works.	lb.	.46½- .53
Paris green, dealer, distributor, dms., kgs., c.l., works, frt. alld. E.	lb.	.31 - —
l.c.l., same basis.	lb.	.32 - .33
Passion flower herb, bls.	lb.	.35 - .40
Patchouli leaves, bls.	lb.	.38 - .40
Pectin, citrous, bbls.	lb.	1.25 - —
Penicillin, amorph, calcium, bulk, 1,000,000,000-unit lots.	100,000 units.	.14 - —
sodium, bots. (100,000 units)	bot.	.25 - —
cryst., sodium, bots. (100,000 units).	bot.	.32 - —
(200,000 units)	bot.	.53 - —
bulk, 1,000,000,000-unit lots.	100,000 units.	.16 - —

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BECKOSOL

It's here and it's available, despite the many raw material shortages . . . a non-phthalic alkyd you can trust to meet your quality standards! It's better in every way—better in grinding properties . . . better in dip tank stability . . . far ahead in water and alkali resistance and all around durability. Because of these advantages and its superior through dry, New No. 1945 Beckosol gives splendid results in surface coatings subjected to hard usage. Get the facts. Write the Sales Department at Detroit.

REICHHOLD CHEMICALS, INC.

General Offices and Main Plant, Detroit 20, Michigan

Other Plants: Brooklyn, New York • Elizabeth, New Jersey • South San Francisco, California • Seattle, Washington • Tuscaloosa, Alabama
Liverpool, England • Paris, France • Sydney, Australia • Zurich, Switzerland • Milan, Italy • Rio de Janeiro, Brazil

SYNTHETIC RESINS • CHEMICAL COLORS • PHENOLIC PLASTICS • INDUSTRIAL CHEMICALS

Pennroyal leaves, bls.	lb.	.25 -	.30
Pentachlorophenol, dms., works.	lb.	.20 -	.25
Pentaerythritol, tech., bbls., c.l., works.	lb.	.32 -	—
l.c.l., works.	lb.	.34 -	.36
Pentane, 28°-38° C., industrial, dms., c.l., group 3.	gal.	.16 -	.17
l.c.l., dms., group 3.	gal.	.21 -	.60
tanks, group 3.	gal.	.10½-	.11⅛
Pepper, black, bgs.	lb.	.42 -	.43
futures, bgs., nearby	lb.	.42 -	.42⅛
distant	lb.	.41 -	.42
Red, capsicum, Louisiana longs, bgs., shipment point.	lb.	.18	Nom.
Mississippi sports, bgs., source,	lb.	.25⅜-	.26
Mombasa, bgs.	lb.	No stocks	
Niger, bgs.	lb.	.17½-	.18
birdseye, bgs.	lb.	.34 -	.35
Sierra Leone, futures	lb.	.23 -	.23⅛
Chillies, Haitian, bgs.	lb.	No stocks	
Mexican, long	lb.	No stocks	
White, bgs.	lb.	.62 -	.63
Peppermint, USP, dom., bls.	lb.	.75 -	.80
imported, bls.	lb.	.80 -	.85
Perchloroethylene, dms., c.l., zone 1, works, frt. alld.	lb.	.10⅝-	—
zone 2, same basis	lb.	.11⅛-	—
zone 3, same basis	lb.	.11⅝-	—
zone 4, same basis	lb.	.11¼-	—
l.c.l., zone 1, same basis	lb.	.11⅝-	—
zone 2, same basis	lb.	.12 -	—
zone 3, same basis	lb.	.12⅜-	—
zone 4, same basis	lb.	.12 -	—
tanks, zone 1, same basis	lb.	.10⅛-	—
zone 2, same basis	lb.	.10⅝-	—
zone 3, same basis	lb.	.11¼-	—
zone 4, same basis	lb.	.10⅝-	—

Perchloroethylene zones are:—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., Neb. (Omaha), Kans. (Kansas City), N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis.; (2) Ala., Ark., Fla., Ga., Kansas, La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont. (E), N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Peru balsam, dms.	lb.	.90 -	1.00
Petrolatum, tech., dark, bbls., c.l., group 3.	lb.	.021 -	—
Pennsylvania refy.	lb.	.045 -	—
golden topaz, bbls., c.l.	lb.	.032 -	—
l.c.l.	lb.	.036 -	—
red, veterinary, bbls., c.l.	lb.	.024 -	—
l.c.l.	lb.	.028 -	—
USP, amber, nonsret., dms., c.l.	lb.	.043⅛-	—
Pennsylvania refy.	lb.	.047⅛-	—
l.c.l.	lb.	.053⅛-	—
cream, c.l., dms.	lb.	.060⅛-	—
l.c.l.	lb.	.068⅛-	—
extra, amber, dms., c.l.	lb.	.05 -	—
l.c.l.	lb.	.060⅛-	—
white, lily, dms., c.l.	lb.	.062⅛-	—
l.c.l.	lb.	.068⅛-	—
snow, dms., c.l.	lb.	.073⅛-	—
Pennsylvania refy.	lb.	.083⅛-	—
l.c.l.	lb.	.095⅛-	—
California, refy.	lb.	.113⅛-	—
soft, dms., c.l.	lb.	.063⅛-	—
Pennsylvania refy.	lb.	.073⅛-	—
l.c.l.	lb.	.087⅛-	—
California refy.	lb.	.1075-	—
yellow, soft, dms., c.l.	lb.	.043⅛-	—
Pennsylvania refy.	lb.	.043⅛-	—
l.c.l.	lb.	.06 -	—
California refy.	lb.	.09 -	—
Petroleum, crude, bulk, at wells, California.	bbl.	1.91 -	2.89
Illinois	bbl.	2.65 -	2.77
Kentucky	bbl.	2.60 -	2.77
Louisiana-Arkansas	bbl.	2.14 -	2.75
Montana	bbl.	2.50 -	2.65
Oklahoma-Kansas	bbl.	2.23 -	2.65
Pennsylvania, lower field.	bbl.	5.00 -	—
Upper field.	bbl.	3.10 -	5.00
Texas, East.	bbl.	2.65 -	—
Gulf coast	bbl.	2.38 -	2.88
North, North-Central.	bbl.	2.23 -	2.65
Panhandle	bbl.	2.23 -	2.65
West	bbl.	2.10 -	2.75
Wyoming	bbl.	1.90 -	2.65
Ether, laboratory, 30°-60° C, cns., dlvd. E.	gal.	1.50 -	—
dms., c.l., group 3.	gal.	.28 -	—
l.c.l., same basis	gal.	.44 -	—
35°-60° C, 10-gal. cns., dlvd. E.	gal.	1.50 -	—
dms., c.l., Group 3.	gal.	.26 -	—
l.c.l., same basis.	gal.	.44 -	—
40°-75° C, 10-gal. cns., dlvd. E.	gal.	1.50 -	—
dms., c.l., Group 3.	gal.	.26 -	—
l.c.l., same basis.	gal.	.44 -	—
Fuel oil, bunker C (No. 6), California, heavy tanks, refinery.	bbl.	1.80 -	2.20
light, tanks, refinery	bbl.	2.05 -	2.40
Eastern, tanks, Albany, N.Y.	bbl.	3.247 -	—
Baltimore, Md.	bbl.	3.03 -	3.17
Boston, Mass.	bbl.	3.055 -	3.315
Charleston, S. C.	bbl.	2.96 -	—
Jacksonville, Fla.	bbl.	2.99 -	3.03
New York, N. Y.	bbl.	3.02 -	3.27
Norfolk, Va.	bbl.	3.00 -	3.04
Philadelphia, Pa.	bbl.	3.03 -	3.17
Portland, Me.	bbl.	3.085 -	3.115
Providence, R. I.	bbl.	3.045 -	3.085
Savannah, Ga.	bbl.	2.99 -	3.03
Diesel, tanks, refinery, California,	gal.	.065 -	.092
Pennsylvania	gal.	.11 -	.115
Furnace, tanks, refinery, Arkansas, No. 2.	gal.	.06125-	—
No. 3	gal.	.05875-	—
Bayonne, N. J., No. 2.	gal.	.091 -	—
Group 3, No. 1.	gal.	.09125-	.12
No. 1, straw.	gal.	.08375-	—
No. 2, straw.	gal.	.09 -	.12
No. 3	gal.	.09125-	—
range	gal.	.08375-	.0975
Pennsylvania, No. 1.	gal.	.11125-	.12
No. 2	gal.	.11 -	.12
No. 3	gal.	.11 -	.115
Lacquer diluent, California, 100 l.b.p., 200 e.p., tanks, dlvd., Los Angeles.	gal.	.118 -	—
Portland, Ore.	gal.	.128 -	—
San Francisco	gal.	.118 -	—
Seattle, Wash.	gal.	.128 -	—
East coast, tanks, N. J. and N. Y. refinery.	gal.	.16 -	—
Group 3, benzol-type, tanks, refinery.	gal.	.1225-	.13
toluol-type, tanks, refinery.	gal.	.1225-	.13
Mineral spirits, California, tanks, San Francisco, 170-250 b.r.	gal.	.125 -	—
205-290 b.r.	gal.	.123 -	—
244-362 b.r.	gal.	.123 -	—
307-360 b.r.	gal.	.113 -	—
312-402 b.r.	gal.	.113 -	—
362-458 b.r.	gal.	.118 -	—
East coast, tanks, N. J., N. Y., refinery.	gal.	.14 -	—
Group 3, tanks.	gal.	.1025-	.115
Gulf coast, tanks, refinery.	gal.	.0875-	—
tankwagon, Baltimore	gal.	.175 -	—
Boston	gal.	.16 -	—
Buffalo	gal.	.16 -	—
Camden, N. J.	gal.	.15 -	—
Chicago	gal.	.169 -	—
Detroit	gal.	.192 -	—
Kansas City, Mo.	gal.	.165 -	—
Lancaster, Pa.	gal.	.155 -	—
Newark	gal.	.15 -	—
New York	gal.	.15 -	—
Philadelphia	gal.	.15 -	—
Pittsburgh	gal.	.17 -	—
Petroleum, mineral spirits, tankwagon, Providence.	gal.	.16 -	—
Rochester	gal.	.17 -	—
St. Louis	gal.	.171 -	—
Syracuse	gal.	.18 -	—
Washington, D. C.	gal.	.175 -	—
Naphtha, cleaners, California, tanks, San Francisco.	gal.	.123 -	—
East coast, tanks, N. J., N. Y., refinery.	gal.	.14 -	—
Group 3, tanks.	gal.	.1125-	.12
tankwagons, St. Louis.	gal.	.1470-	—
tankwagon, Newark	gal.	.15 -	—
Chicago	gal.	.14¼-	—
Detroit	gal.	.15½-	—
New York	gal.	.15 -	—
Philadelphia	gal.	.15 -	—
High-flash, 140° F, group 3, refinery, tanks.	gal.	.13 -	.143
High-solvency, tanks, refinery, 200-285 b.r., 37-38° C, mixed anilin pt.	gal.	.22 -	—
25-26° C, m.a.p.	gal.	.21 -	.26½
270-370 b.r., 78-81° C, m.a.p.	gal.	.24½-	.26
49° C, m.a.p.	gal.	.29 -	—
26° C, m.a.p.	gal.	.21 -	—
300-400 b.r., 26-32° C, m.a.p.	gal.	.21 -	.26½
340-410 b.r., 32° C, m.a.p.	gal.	.21 -	—
36° C, m.a.p.	gal.	.21 -	—
340-440 b.r., 32° C, m.a.p.	gal.	.26½-	—
360-480 b.r., 25° C, m.a.p.	gal.	.21 -	—
V.M.&P., at refinery, California, 46.5, 254-389 b.r., tanks, El Segundo.	gal.	.12 -	—
Richmond	gal.	.12½-	—
Portland, Ore., Seattle, Wash.	gal.	.12 -	—
64-77, 190-310 b.r., tanks, Los Angeles.	gal.	.11 -	—
San Francisco	gal.	.11½-	—
Portland, Seattle	gal.	.12 -	—
East coast, N. J., N. Y., tanks.	gal.	.15 -	—
Petroleum naphtha, V.M.&P., at refinery, Group 3, tanks.	gal.	.1125-	.12
Gulf coast, tanks, New Orleans.	gal.	.10 -	—
tankwagon, Boston	gal.	.17 -	—
Chicago	gal.	.19 -	—
Detroit	gal.	.201 -	—
Milwaukee	gal.	.207 -	—
Minneapolis	gal.	.205 -	—
Newark	gal.	.165 -	—
New York	gal.	.16 -	—
Philadelphia	gal.	.165 -	—
Pittsburgh	gal.	.18 -	—
St. Louis	gal.	.199 -	—
Solvent, rubber, at refinery, California, tanks, San Francisco.	gal.	.115 -	—
East coast, N. J., N. Y.,	gal.	.15 -	—
Group 3, tanks.	gal.	.11 -	.1175
Stoddard (C.S. 8-38), at refinery, California tanks,			
San Francisco.	gal.	.12 -	—
East coast, N. J., N. Y., tanks.	gal.	.14 -	—
Group 3, tanks.	gal.	.11 -	.1175
Pennsylvania, western, tanks,	gal.	.10 -	—
tankwagon, Boston	gal.	.16 -	—
Chicago	gal.	.15½-	—
Detroit	gal.	.17½-	—
Milwaukee	gal.	.16½-	—
Minneapolis	gal.	.164 -	—
Newark	gal.	.15 -	—
New York	gal.	.15 -	—
Philadelphia	gal.	.15 -	—
Pittsburgh	gal.	.15 -	—
St. Louis	gal.	.17 -	—
Syracuse	gal.	.17 -	—

Pennyroyal Leaves—Phenylethanolamine

Petroleum sulphonate, 70% sulphonic content, ret. dms., c.l., works.	lb.	.143 -	—
l.c.l., works	lb.	.1475-	—
tanks, works	lb.	.13 -	—
50% sulphonic content, ret. dms., c.l., works.	lb.	.1165-	—
l.c.l., works	lb.	.12 -	—
tanks, works	lb.	.1025-	—
Phenobarbital, dms., 100 lbs.	lb.	3.50 -	4.50
Phenol, 90-92% (cresol, 8-10%), dms., c.l., works, frt. equald.	lb.	.13 -	.13½
l.c.l., same basis	lb.	.13¾-	.14¼
tanks, same basis	lb.	.12 -	.12½
82-84% (cresol, 16-18%), dms., c.l., same basis.	lb.	.13¾-	—
l.c.l., same basis	lb.	.14¼-	—
tanks, same basis	lb.	.12¾-	—
USP, dms., c.l., same basis	lb.	.12½-	.12¾
l.c.l., same tasis	lb.	.13¼-	.13½
tanks, same basis	lb.	.11½-	—
Phenolphthalein, USP, yellow, bbls., dms., 2,000 lbs.	lb.	.92 -	—
smaller lots	lb.	.93 -	.96
Phenothiazin, NF, fib dms., ton lots, works.	lb.	.49 -	—
smaller lots, works	lb.	.54 -	—
Phenylacetaldehyde solution, 50%, bots.	lb.	2.35 -	2.75
pure, bots.	lb.	4.00 -	4.50
Phenyl acetate, dms., 100-lb. lots, works.	lb.	.50 -	—
Phenyldiethanolamine, dms., works.	lb.	.33 -	.34
Phenylethanolamine, dms., c.l., works,	lb.	.64 -	—
l.c.l., same basis	lb.	.65 -	—

FROM SHELL CHEMICAL

KETONES

WITH PROPERTIES YOU MAY BE LOOKING FOR...

PHYSICAL PROPERTIES

	MOLECULAR FORMULA	MOLECULAR WEIGHT	BOILING POINT °C.	FLASH PT. °F. TAG OPEN CUP	FLASH PT. °F. TAG CLOSED CUP	VAPOR PRESSURE mm. Hg 20° C.	POUNDS PER GAL. 20° C.
ACETONE	CH_3-CO-CH_3	58.1	56.1	BELOW —4		186.2	6.59
METHYL ETHYL KETONE	CH_3-CO-C_2H_5	72.1	79.6	34	28	71.2	6.71
METHYL ISOBUTYL KETONE	CH_3-CO-CH_2-$CH(CH_3)_2$	100.2	115.9	81	60	15.2	6.67
MESITYL OXIDE	CH_3-CO-CH=$C(CH_3)_2$	98.1	129.5	98	79	8.0	7.11

AS SOLVENTS, these four Shell Chemical ketones can be used to excellent advantage . . . in surface coatings based on nitrocellulose and vinyl resins . . . in phenolic can coating operations, cloth and paper coatings, airplane dopes, artificial leathers, acetate rayon, photographic film, cleaning compounds, paint removers, adhesives and rubber cement.

In the compounding of lacquers and thinners, their solvency permits solutions of high solids concentration while keeping viscosity characteristics within workable limits.

AS EXTRACTANTS they find widespread use in the preparation of antibiotics, the dewaxing of lubricating oils and in numerous other recovery processes.

AS CHEMICAL RAW MATERIALS these ketones, because of their reactive carbonyl group, permit chlorination, hydrogenation, oxidation and condensation with aldehydes and aromatic compounds.

For full descriptive matter and samples of any or all of the above ketones, write your nearest Shell Chemical office.

Other Shell Chemical products are: Allyl Chloride, Acrolein, Epichlorohydrin, Glycerol Dichlorohydrin and Isopropyl Alcohol

SHELL CHEMICAL CORPORATION

100 Bush Street, San Francisco 6 • 500 Fifth Avenue, New York 18

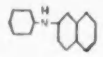
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit

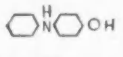
Phenylethyl Acetate—Purple Lake

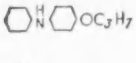
Phenylethyl acetate, dms.....lb. 2.15 - 2.70
Phenylethylphenyl acetate, bots....lb. 4.50 - 6.00
Phenylhydrazin base, CP, bots....lb. 4.55 - —
Hydrochloride, CP, bots., works..lb. 7.10 - —
commercial, kgs., works.....lb. 1.75 - —
Phenylmethylpyrazolone, dms., works, lb. 1.50 - —
Phloroglucinol, CP, fib. dms.....lb.13.75 - —
tech., fib. dms.....lb.10.00 - —
Phosgene, 150-lb. cyls., works.....lb. .20½- .35
10-lb. cyls., works.....lb. 1.00 - —
Phosphate, defluorinated (see under D.).
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 68-66%, b.p.l., bulk, c.l., car at mine..long ton. 3.34 - 3.49
70%-68%, b.p.l., c.l., same basis..long ton 3.74 3.89
72%-70%, b.p.l., c.l., same basis..long ton 4.34 - 4.42
75%-74%, b.p.l., same basis, long ton. 5.34 - 5.49
77%-76%, b.p.l., c.l., same basis..long ton. 6.34 - 6.49
Prices for Florida phosphate rock are plus usual bonus penalty clause on oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.
finely ground 65.5% b.p.l., basis 30% P_2O_5 minimum..short ton. 5.00 - —
68%, b.p.l., basis 31% P_2O_5 minimum..short ton. 5.20 - —
70%, b.p.l., basis 32% P_2O_5 minimum..short ton 5.55 - —
Phosphate rock, Tennessee, brown, run-of-mine, unground, 70-68% b.p.l., 5½% I. & a., same basis, long ton. 5.50 - —
72%-70%, b.p.l., 5½% I. & a., same basis..long ton. 6.00 - —
29% P_2O_5, same basis, long ton. 5.15 - —
30% P_2O_5, same basis, long ton. 5.36 - —
31% P_2O_5, same basis, short ton. 5.45 - —
32% P_2O_5, same basis, short ton. 5.70 - —
33% P_2O_5, same basis, short ton. 6.20 - —
Phosphorus, red, amorphous, cs.....lb. .33 - .36
tins, export.....lb. .40 - 45
Yellow, cns.....lb. .30 - .37
dms., c.l.....lb. .26 - —
Oxychloride, dms., works.....lb. .11 - .14
Pentoxide, dms c.l., works.....lb. .12 - —
l.c.l., works.....lb. .13 - 14
Sesquisulphide, tins, cs., works..lb. .28 - .29
Trichloride, dms., c.l., works.....lb. .11 - 14
l.c.l., works.....lb. .12 - .15
Phthalamide, bbls., works.....lb. .35 - .40
kgs., works.....lb. 45 - 50
Phthalic anhydride, bgs., bb's., c.l., works, frt. equald..lb. .17½- .20
Pacific Cst., dlvd.....lb. .19¼- —
l.c.l., same basis.....lb. .18½- .21
Pacific Cst., dlvd.....lb. .21¼- —
Pichi leaves, bgs.....lb. 07 - .08
Picoline (see Alphapicoline and Betapicoline).
Picrotoxin, bots.....oz. 8.00 - —
Pilocarpine hydrochloride, USP, bots., vials..(cz. 6.50 - 7.50
Nitrate, bots., vials.....oz. 6.25 - 7.25
Pimento, Jamaica, bgs.....lb. .24½- .26
Pinetar, retort, dms. incl., c.l., works, South..gal. .39 - .41
l.c.l., same basis.....gal. .40½- .43
whse., N.Y.C.....gal. .50¼- .62½
tanks, works, South.....gal. .30 - .32
Pinkroot, bls.....lb. 2.25 - 2.30
Piperidine, 95%, dms., frt. equald..lb. 1.50 - —
98%, same basis.....lb. 1.60 - —
Piperazine hexahydrate, bots.....lb.11.50 -12.50
Pipsissewa herb (see Prince's pine).
Pitch, coaltar, 150° m.p., bbls., c.l., works..ton.31.00 - —
l.c.l., works.....ton.34.00 - —
Cottonseed, dms., works.....lb. .10½- .10¾
Hardwood, paper bgs., works....lb. .04 - —
Linseed, dms.....lb. No prices
Petroleum (see Asphaltum, Mexican, Texas).
Pine, dms, ex whse. East...100 lbs. 6.90 - —
Soybean, dms., works.....lb. .10¼- .10½
Plaster of paris (see Gypsum).
Platinum metal, works.....oz.69.00 -72.00
Podophyllin, dms.....lb.13.50 -13.75
Pokeroot, bls.....lb. .21 - .22
Polystyrene, plain colors, bgs., 30,000 lbs., works, frt. alld..lb. .31½- —
20,000 lbs., same basis.....lb. .32½- —
smaller lots, same basis.....lb. .32½- .56
Water-clear, polystyrene, 7c.-18c. per lb. less than plain colors, depending on quantity; plain colors, dms., ½c. higher.
Pomegranate root bark, bgs.....lb. .75 - .76
Poppy flowers, bls.....lb. .65 - .70
Seed, Argentine, bgs.....lb. .21 - .21½
Danish, bgs.....lb. .19½- .20
Dutch, bgs.....lb. .21½- .22
Turkish, bgs.....lb. .18½- .19
Potash, caustic, low-chloride, flake, 90%, dms., c.l., works..100 lbs. 9.60 - —
l.c.l., works.....100 lbs.10.35 - —
liquid, dms., c.l., works..100 lbs. 9.00 - —
l.c.l., works.....100 lbs. 9.75 - —
tanks, works.....100 lbs. 8.25 - —
solid, 90%, dms., c.l., works..... 100 lbs. 9.00 - —
l.c.l., works.....100 lbs. 9.75 - —
regular, flake, 88-92%, dms., c.l., works..lb. .0785- —
l.c.l., works.....lb. .0860- —
liquid, 45% basis, dms., c.l., works..lb. .03575- —
l.c.l., same basis.....lb. .0395- —
tanks, same basis.....lb. .03¼- —
solid, 88-92%, dms., c.l., works.lb. .07¼- —
l.c.l.....lb. .08 - —
Potassium abietate.....lb. .08 - —
Acetate, USP, dms.....lb. .28 - .30
Bicarbonate, USP, gran., dms....lb. .20 - .22
powd., dms.....lb. .22 - .24
Bichromate, bgs., c.l., works....lb. .11½- —
l.c.l., works.....lb. .11⅝- .11¾
Potash bichromate in bbls., ¼c. higher.
Borate, gran., bbls., c.l., works..ton.200.00 - —
ton lots, works.....ton.218.50 - —
less ton lots, works.....ton.223.50 - —
Bromide, USP, cryst., gran., bbls., kgs..lb. .33 - .34
Carbonate, tech., calcined, bbls., c.l., works..lb. .07½- —
l.c.l., same basis.....lb. .08 - —
hydrated, 83-85%, bbls., c.l., works..lb. .06 - —
dms., l.c.l., works.....lb. .06½- —
USP, gran., bbls., dms.....lb. .14 - .19
powd., bbls., dms.....lb. .20 - .25
Chromate, tech., bgs.....lb. .25 - .29
Chlorate, cryst., kgs., c.l., works, lb. .08½- —
l.c.l., works.....lb. .09¾- —
powd., dms., kgs., c.l., works..lb. .09 - —
l.c.l., works.....lb. .09¾- —
export, kgs., 1 to 10 tons, ex whse..lb. .12 - —
Chloride, USP, cryst., bbls.....lb. .21 - .22
gran., bbls.....lb. .19 - .20
powd., bbls.....lb. .22 - .23
Citrate, USP, gran., bbls., dms..lb. .35½- .40¼
Potash citrate, USP, powd., 3c. per lb. higher.
Cyanide, dms., works.....lb. .55 - —
Fluoride, dms., works.....lb. .24 - —
Glycerophosphate, 75% solution, cbys. lb. 2.05 - 2.20
Guaiacolsulphonate, NF, dms....lb. 1.80 - 1.85
Hydroxide, tech. (see Potash, caustic).
USP, sticks, dms.....lb. .34 - .36
Hypophosphite, cns.....lb. .72 - .75
Iodide, dms.....lb. 1.95 - 1.98
Manure salt, 22% K_2O, bulk, mines.. unit-ton. .20 - —
25% K_2O, bulk, mines..unit-ton. .21 - —
Metabisulphite, gran., bbls.....lb. .19 - .21
powd., bbls.....lb. .25 - —
Muriate, dom., 60% K_2O, bulk, Carlsbad, N. M..unit ton. 37½- —
Trona, Cal.....unit ton. 45½- —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., dms..lb. .28 - .34
Perchlorate, kgs., works.....lb. .12½- .14
Permanganate, tech., kegs, works, lb. .21¾- .22¼
USP, dms., works.....lb. .23½- .24
Persulphate, dms., c.l., works....lb. .17 - —
l.c.l., works.....lb. .21 - —
Phosphate, tetrabasic, bbls., works, lb. .13 - .13½
Prussiate, red, kgs.....lb. .55 - .58
Yellow, bbls.....lb. .19 - —
Ricinoleate, tech., bbls.....lb. .18 - —
Silicate, glass, bgs., c.l., works..ton.260.00 - —
l.c.l.....100 lbs.15.25 - —
solution, 20° Be, ret. drums, c.l., works..100 lbs. 4.25 - —
l.c.l., 5 or more, works..100 lbs. 5.00 - —
1-4, works.....100 lbs. 5.50 - —
22° Be, ret. dms., c.l., works, 100 lbs. 4.75 - —
l.c.l., 5 or more, works, 100 lbs. 5.50 - —
1-4, works.....100 lbs. 6.00 - —
40.5° Be, ret. dms., c.l., works, 100 lbs. 5.75 - —
l.c.l., 5 or more, works, 100 lbs. 6.50 - —
1-4, works.....100 lbs. 7.00 - —
Silicofluoride, bbls., works.....lb. .09 - —
Sulphate, NF, cryst., bbls.....lb. .30½- .33¼
powd., bbls.....lb. .14½- .17
tech., dom., bulk, basis 90-95% K_2O_4 min. 90%, ex vessel Atlantic or Gulf ports...ton.36.25 - —
West coast ports.....ton.39.25 - —
Sulphocyanide, cryst., NF., dms..lb. .62 - .70
Thiocyanate (see sulphocyanide).
Titanate, ctns., c.l., works.....lb. .12 - —
5 tons, works.....lb. .12¼- —
2,000 lbs. or less, works.....lb. .12½- .13
Xanthate, dms., c.l.....lb. .12 - —
Potassium-magnesium sulphate, bulk, min., 40% K_2SO_4, 18-50% MgO, ex vessel, ports..ton.26.00 - —
Potassium-sodium ferricyanide, kgs., works..lb. .45 - .48
Potassium-sodium tartrate (see Rochelle salt).
Potassium - titanium oxalate, bbls., dms..lb. .50 - .55
Prickly ash bark, bls.....lb. .28 - .33
Berries, bgs.....lb. .20 Nom.
Prince's pine herb, bls.....lb. .55 - .60
Procaine hydrochloride, cns., 200-lb. lots..lb. 4.50 - —
smaller lots.....lb. 4.75 - 5.50
Propane, commercial grade, tanks, group 3..gal. .05½- .06¾
Propionaldehyde, dms., c.l., works..lb. .16½- —
l.c.l., works.....lb. .17 - —
tanks, works.....lb. .15 - —
Propyl aldehyde (see Propionaldehyde).
Propyl acetate, dms., c.l., works....lb. .22½- —
l.c.l., works.....lb. .23½- —
tanks, works.....lb. .21 - —
tankwagons, works.....lb. .21½- —
Propylene dichloride, dms., c.l.....lb. .06¾- —
l.c.l.....lb. .09½- —
smaller containers.....lb. .12½- —
tanks.....lb. 07 - —
Oxide, dms., c.l., frt. equald.....lb. .19 - —
l.c.l., frt. equald.....lb. .20 - .21
tanks, frt. equald.....lb. .17½- —
Propyleneglycol, dms., c.l., frt. alld. E..lb. .16 - —
l.c.l., same basis.....lb. .16½- .18
tanks, same basis.....lb. .14½- —
Propylthiouracil, bots. works.....kilo 50.00 - —
Psyllium seed (see Fleaseed).
Pulsatilla herb, bls.....lb. .60 - .65
Pumice, dom., grd., course, 0½, 1, 1½, 2, 3, bgs., ton lots..lb. .03⅝- .04
Chicago.....lb. .04½- —
smaller lots.....lb. .03⅞- .04¼
fine, bgs., ton lots.....lb. .03⅝- —
smaller lots.....lb. .03⅝- .04
Italian, silk-screen, fine, bgs., ton lots..lb. .04 - —
course, bgs., ton.....lb. .03½- —
sun dried, fine, bgs., ton lots...lb. .03 - —
course, bgs., ton lots.....lb. .04½- —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed bgs.....lb. .27 - 29
Purple lake (see Red).

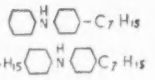
Good-rite CHEMICALS

Secondary Aromatic Amines


Phenyl B-Naphthylamine


p-Hydroxy Diphenylamine

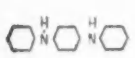

p-Isopropoxy Diphenylamine

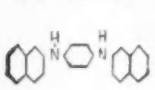

Mixed Mono and Diheptyl Diphenylamines

These amines are suggested for use as stabilizers, antioxidants, polymerization inhibitors, and for organic synthesis. It is believed that they will find wide usage in the following industries: Dyes, explosives, plastics, petroleum, photographic, drug, medicinal, and soap.

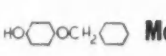
Other organic Chemicals

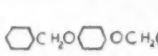
Di-secondary Aromatic Amines


Diphenyl p-Phenylenediamine

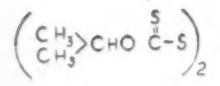

Di B-Naphthyl p-Phenylenediamine

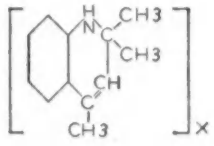
Ethers of Hydroquinone

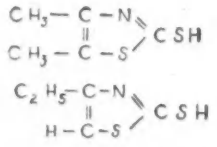

Monobenzyl Ether of Hydroquinone


Dibenzyl Ether of Hydroquinone

Miscellaneous


Di-Isopropyl Dixanthogen


Trimethyl Dihydro Quinoline Polymer


Mixed Ethyl and Dimethyl Mercaptothiazoles

N-Nitroso Diphenylamine

All materials listed here are available in commercial quantities. Prices and technical information are available on request. Please write Dept. CH-8, B. F. Goodrich Chemical Company, Rose Building, Cleveland 15, Ohio.

B. F. Goodrich Chemical Company A DIVISION OF THE B. F. GOODRICH COMPANY

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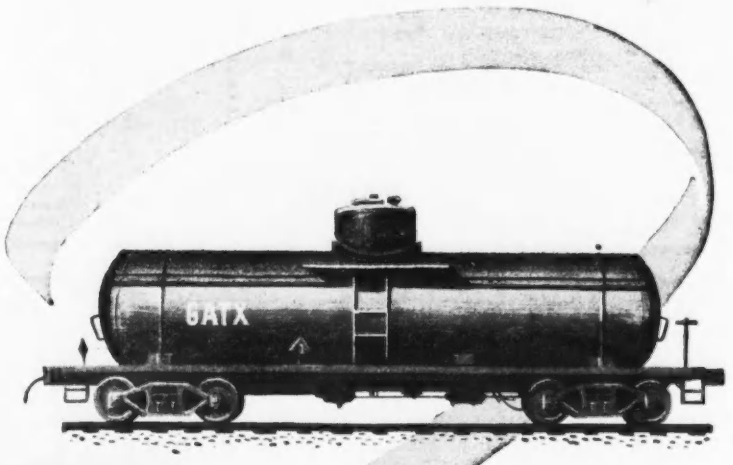

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Pyrethrum Concentrate—Salt, Table

Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works..lb. 7.25 - —
liquid (20 to 1), basis 2 grams pyrethrins per 100cc., odorless base, dms., works...gal. 5.75 - —
regular base, dms., works..gal. 5.65 - —
(20 to 1), base 3 grams pyrethrins, per 100cc, odorless base, bbls., works...gal. 8.00 - —
regular base, dms., works..gal. 8.50 - —
Flowers, fine-grd., 0.9% pyrethrins, bbls., works...lb. .26 - .27
powder, 1.3% pyrethrins, bbls., works...lb. .39 - .43
Pyridin, denaturing, ret. dms., works, frt. equald..gal. 2.49 - 2.52
refd., 2° non-ret. dms., c.l., same basis...lb. .69 - .70
l.c.l., same basis.....lb. .69½- .70½
ret. dms., l.c.l., same basis..lb. .89 - —
Pyridoxin hydrochloride, 100-gram lots, kilo. 550.00- —
Pyrites, Spanish, c.i.f. Atl. ports, long-ton. 8.00 -10.00
Pyrocatechein (see Catechol).
Pyronate, dms., c.l., dlvd. E. of Miss. gal. .70 - —
l.c.l., works .....gal. .70 - —
tanks, dlvd., E. of Miss.....gal. .60 - —
Pyronate prices W. of Miss., 3c. per gal. higher.
Pyrophyllite, standard, 200 mesh, bulk, c.l., mines..ton.11.00 11.50
325 mesh, bulk, c.l., mines....ton.14.00 - —
No. 3, 200 mesh, bulk, c.l., mines, ton. 9.50 - —
Insecticide grade, 200 mesh, bulk, c.l., mines..ton. 9.00 -10.00
Pyrophyllite, rubber grade, 140 mesh, bulk, c.l., mines..ton. 7.00 - —
230 mesh, bulk, c.l., mines..ton.12.00 - —
Pyrophyllite in paper bgs., $1.50-$2.50 per ton extra.
Pyroxylin scrap, opaque, amber, cs., works...lb. .17 - —
black, cs., works.....lb. .14 - —
gray, cs., works.....lb. .14 - —
mixed, mottled, cs., works...lb. .12 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works.....lb. .17 - —
translucent, pastels, cs., works.lb. .17 - —
transparent, colorless, cs., works, lb. .19 - —
colors, cs., works.....lb. .17 - —
shavings, opaque, amber, cs., works, lb. .15 - —
mixed colors, cs., works.....lb. .14 - —
white, cs., works.....lb. .17 - —

Q

Quassia chips, bls.....lb. .07 - 09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l..lb. .13½- —
liq., 35% tannin, bbls., works..lb. .0335- —
tanks, same basis.....lb. .06 - —
solid, 64% tannin, bgs., c.l.....lb. .09½- —
powd., 70% tannin, bgs., c.l....lb. .14½- —
ordinary, solid, 63% tannin, bgs., c.l., ex dock, duty extra..lb. .0821- .0850
Quebracho extract prices are based on $20 freight and $1 insurance per long ton.
Queen of the meadow root bgs....lb. .12 - .13
Quercitron crystals, bbls., l.c.l.....lb. .33½- —
Extract, liquid, bbls., l.c.l.....lb. .14½- —
solid, bxs.....lb. .28 - —
Quicksilver, flasks (76 lbs.) net..flask.77.00 -79.00
Quince seed, bgs.....lb. 1.20 - 1.80
Quinidine, NF, V, cryst., cns.....oz. 1.06 - —
powd., precip., cns.....oz. No stocks
Sulphate, USP, cns.....oz. .87 - —
Quinine, NF, cns., 100 ozs.....oz. .97½- —
Acetate, cns., 100 ozs.....oz. No stocks
Arsenate, cns., 100 ozs.....oz. No stocks
Arsenite, cns., 100 ozs.....oz. No stocks
Bisulphate, USP, cns., 100 ozs...oz. .73½- —
Citrate, cns., 100 ozs.....oz. No stocks
Dihydrobromide, bots., 50 ozs....oz. No stocks
Dihydrochloride, USP .....oz. .99½- —
Ethylcarbonate, NF, cns., 100 ozs.oz. No stocks
Ferrocyanide, cns., 100 ozs..... oz. No stocks
Formate, cns., 100 ozs.....oz. No stocks
Hydrobromide, NF, cns., 50-oz. cans, oz. .89½- —
Hydrochloride, USP, cns., 100 ozs.oz. .89½- —
Hydroiodide, cns., 100 ozs.....oz. No stocks
Hypophosphite, cns., 100 ozs.....oz. No stocks
Hydrophosphite, cns., 100 ozs ...oz. No stocks
Phosphate, NF, cns., 100 ozs.....oz. 1.10 - —
Salicylate, NF, cns., 100 ozs.....oz. .95 - —
Sulphate, USP, cns., 100 ozs..... oz. .80½- —
Sulphocarbolate, cns., 100 ozs.....oz. No stocks
Tannate, USP X, cns., 100 ozs.....oz. No stocks
Tartrate, cns., 100 ozs.....oz. No stocks
Valerate, NF, IV, 100 ozs.....oz. 1.12½- —
Quinine-urea hydrochloride, NF, cns.oz .94½- —
Quinolin, dms., c.l., works.....lb. .44½- .45

R

R salt, dry, bbls. .....lb. .61 - .72
paste, dms .....lb. .57 - —
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.45 - 2.28

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1½c.), (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita

Cadmium, lithopone, deep shade, bbls., frt. alld. E. of Rockies. lb. 1.25 - —
light shade, bbls., same basis.lb. 1.10 - —
Maroon, bbls., same basis.....lb. 1.35 - 1.45
medium shade, bbls., same basis. lb 1.20 - —
medium-light shade, bbls., same basis...lb. 1.15 - —
orange-red, bbls., same basis..lb. 1.05 - —
Red cadmium lithopone, all shades, in smaller pkgs. 5c. per lb. higher; all prices are 1c. per lb. higher ex whse., Los Angeles and San Francisco.
Carmine, No. 40, dms., works... lb. 5.50 - 5.65
smaller containers, works.....lb. 6.10 - 6.15
Crocus martis (see Red, maroon oxide).
Dyes (see Dyes, coaltar)
Eosin toner, bbls., works.....lb. 1.35 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y.. lb. .10 - .10¼
English, all shades.....lb. .16 - —
Iron oxide, synth., bbls.....lb. .10½- .10¾
Rose lake, alizarin, bbls., works, reduced, 85% copperas oxide, bbls., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., E. St. Louis, and Trenton, N. J. lb. .06¾- —
80% copperas oxide, bbls., same basis...lb. .085 - 09¼
Lake C toner, alizarin, bbls., works lb. 1.05 - —
Lithol toner, bbls., works.....lb. .75 - .77
Lithol-rubin toner, alizarin lake, bbls., works..lb. 1.40 - —
Maroon, alizarin lake, 25%, kgs., works..lb .40 - .43
toner, bbls., works.....lb 1.35 - 1.50
Cadmium, deep, bbls., works...lb. 1.20 - —
regular, bbls., works.....lb. 1.10 - —
Iron oxide, bgs., c.l.....lb. .0345- —
l.c.l., bgs.....lb. .037 - —
MNFT toner, kgs., works.....lb. 3.25 - —
Maroons in smaller pkgs., 5c. per lb. higher
Mercury oxide, tech., bbls., 10,000 lbs. works..lb 2.00 - —
smaller lots, works.....lb 2.02 - —
Metallic, bbls., works.....lb. .02½- .02¾
oxide (see Red, iron oxide)
Oxide, Persian gulf, bgs., works..lb. .06¾- —
Para toner, bbls.....lb. .85 - .88
chlorinated, kgs.....lb .95 - 1.05
concentrated, alizarin lake, kgs., works..lb. .80 - —
Phloxin toner (see Red, eosin toner).
Phosphotungsic, rhodamine Y, kgs., works..lb. 4.45 - —
Pink lake, alizarin, bbls., works..lb. .20 - .25
Purple lake, kgs. .....lb. 1.35 - —
lb. .25 - .28
Spanish oxide, grade I, c.l., bbls..lb. .05¾- .06¾
Toluidin toner, alizarin lake, kgs., works..lb. 1.30 - —
Turkey, bbls., works.....lb. .14½- —
Tuscan, bbls., E. St. L.....lb .21 - .28
Venetian, 15%, bgs., works.....lb. .0310- —
20%, bgs., works.....lb. .0320- —
25%, bgs., works.....lb. .0350- —
30%, bgs., works.....lb. .0380- —
35%, bgs., works.....lb. .0415- —
40%, bgs., works.....lb. .0440- —
Vermilion, Amer., bbls .....lb .22¼- .48
Quicksilver, ctns.....lb. 2.27 - —
Red precipitate, NF, powd., fib. dms.lb. 2.17 - 2.19
Red saunders, wood, grd., bbls.....lb .25 - —
Resorcinol, tech., dms., works.....lb. .68 - —
USP, cryst., dms., works.....lb 1.70 - —
Rhatany root, bgs. .....lb. .11 - .12
Rhubarb root, whole, cs.....lb. .58 - .60
powd., bbls. .....lb. .67 - .69
Riboflavin, bots .....kilo.150.00 - —
Rice bran concentrate, dms., Cedartown, Ga., or Emeryville, Calif.lb. .79 - —
Rochelle salt, gran., powd., bbls., 5,000 lbs..lb. .31½- —
smaller lots.....lb. .32 - —
Rose flowers, pale, bls. .....lb. .23 - .24
Rosemary flowers, bls. .....lb 1.55 - 1.65
Leaves, French, bls. .....lb. .13 - .13½
Portuguese, bls .....lb. .07½- .08
Spanish, bls. .....lb. .13 - .13¼
Rosin, gum (see Naval Stores, Protective Coatings market)
Wood, B, dms., c.l., works..100 lbs. 5.50 - 5.60
FF, dms., c.l., works.....100 lbs. 6.40 - 6.50
G, H, I, dms., c.l., works..100 lbs. 8.30 - 8.35
K, dms., c.l., works.....100 lbs. 8.35 - 8.55
M, dms., c.l., works.....100 lbs. 8.40 - 8.55
N, dms., c.l., works.....100 lbs. 8.75 - 9.05
WG, dms., c.l., works.....100 lbs. 8.80 - 9.30
WW, dms., c.l., works.....100 lbs. 8.90 - 9.35
X, dms., c.l., works.....100 lbs. 9.40 - —
Rotenone, cryst., bbls., works.....lb.20.00 -24.00
Extract, liq., dms., works..per unit. 1.75 - —
Powder (see Cube root).
Rottenstone, bgs., c.l., mines....ton.36.00 - —
l.c.l., mines .....ton.43.00 - —
Rue herb, bls. .....lb. .45 - .48
Rutin, bots .....gram .28½- .60

S

Sabadilla seed, powd., bbls.....lb .72 - .75
activated ground with lime, bbls.lb. .40 - .43
Saccharin, gran., soluble, 1,000 lbs..lb. 1.40 - 1.90
smaller lots.....lb 1.50 - 2.50
powd., soluble, insoluble, dms., 1,000-lb. lots..lb. 1.45 - —
smaller lots.....lb. 1.55 - —
Safflower (see Saffron, Mexican).
Saffron, Mexican, bls.....lb. 1.35 - 1.40
Spanish, USP, tins.....lb.32.00 -32.50
boxes .....lb.31.50 -32.00
Safrol, cns .....lb. .95 - 1.45
Sage, Cyprian, bls. .....lb. .14 - 14½
futures, bls. .....lb. .14½- .15
Dalmatian, bls. .....lb. .25 - .26
Greek, fancy, bls. .....lb. .18 - .18½
Palestine, bls. .....lb. .16 - .16½
Spanish, bls. .....lb. .13½- .14
Syrian, bgs.....lb. .21 - .21½
Sago flour, bgs.....lb. .08 - .08¼
Salicin, bots. .....lb. No stocks
cns. .....lb. No stocks
Saligenin, dms., works.....lb.15.00 -20.00
Salol, gran., bbls., kgs. .....lb. 1.00 - —
fib. dms. .....lb. 1.02 - 1.03
Powdered salol, 10c. higher
Salt, rock, bgs., c.l.....ton.18.10 - —
l.c.l. .....ton.22.40 -23.00
Salt, table, vacuum, common, fine, kgs., c.l., ton.19.60 -21.00
l.c.l. .....ton.24.40 -26.40

isn't that the Mathieson Plant?

"It's one of them, Mr. Jones—the Niagara Falls plant."

Yes, Mr. Jones and there's another at Saltville, Va., to serve the southeast, and a third at Lake Charles, La., serving the southwest. With three plants, Mathieson offers triple flexibility in deliveries of caustic soda. Call it three sources of supply. That's why weather, breakdowns, railroad or labor conditions seldom keep Mathieson from making prompt deliveries.

The Mathieson Alkali Works (Inc.), 60 East 42nd Street, New York 17, N. Y.

Caustic Soda...Soda Ash...Bicarbonate of Soda...Liquid Chlorine...Chlorine Dioxide Ammonia, Anhydrous & Aqua...HTH Products...Dry Ice...Carbonic Gas...Sodium Chlorite Products...Sodium Methylate,

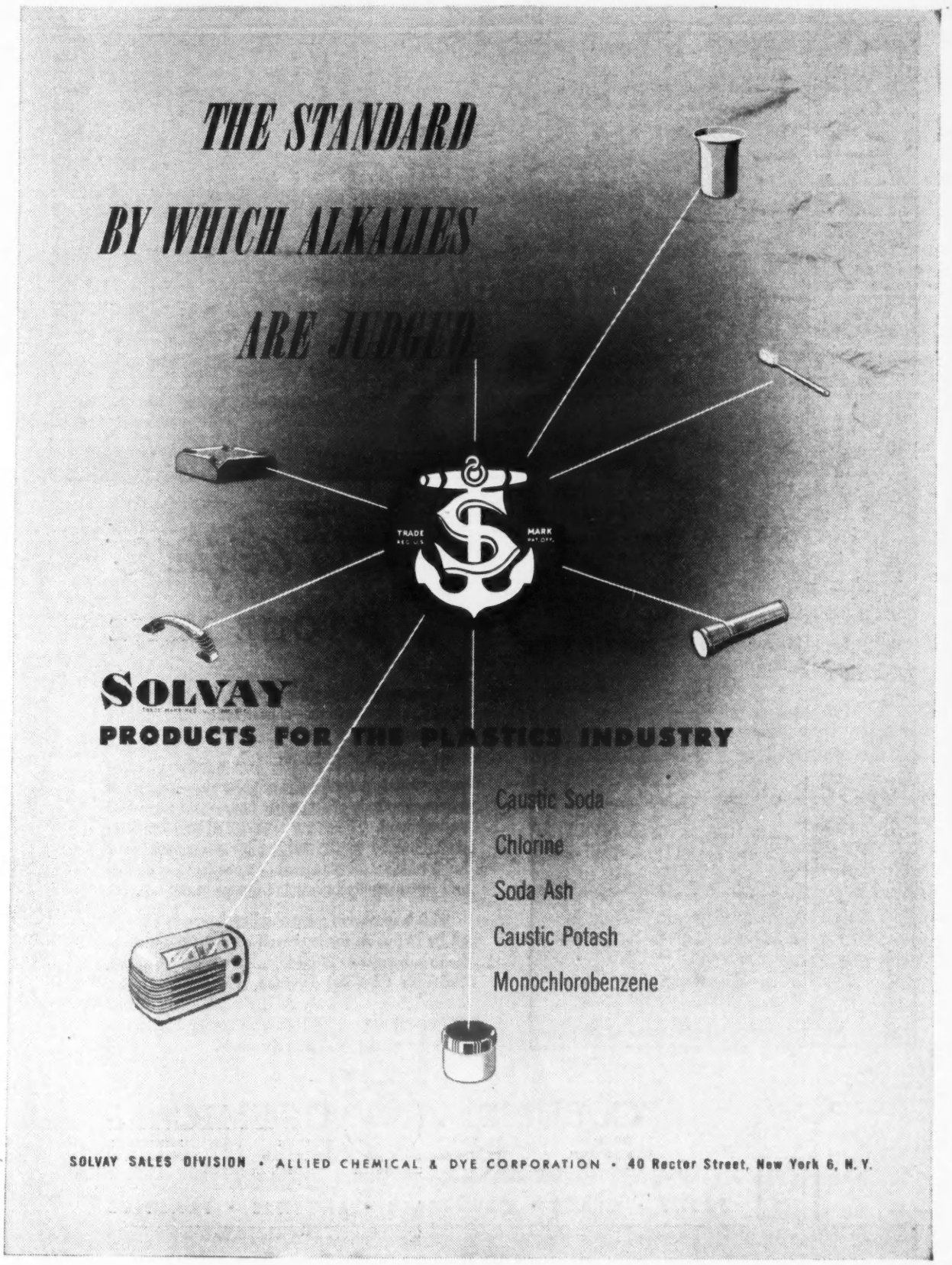
Mathieson CHEMICALS

Saltcake, dom., bulk, works.....ton 20.00 -26.00
Chrome (see Chrome cake).
Saltpeter, cryst., bbls., 10 tons
100 lbs. 13.15 - —
smaller lots .....100 lbs. 13.40 -13.65
gran., bbls., 20 tons.....100 lbs. 8.75 - —
smaller lots .....100 lbs. 9.75 -10.25
powd., bbls., 20 tons.....100 lbs. 9.75 - —
smaller lots .....100 lbs. 10.75 -11.25
Saltpeter in bags is 25c. per 100 lbs. less than in barrels; in kegs it is $1 more.

Sanguinarine nitrate, bots.....oz. 4.75 - 5.50
Santonin, cryst., powd., cns.....kilo. 175.00 -185.00
Saponin, No. 1, cns. .....lb. 2.45 - —
Sarsaparilla root, dom., bls. .....lb. .45 - .50
Honduras, bls.....lb. .50 - .55
Mexican, bls. .....lb. .45 - .50
Sassafras bark, ord., bls. .....lb. .45 - .50
select, bls .....lb. .65 - .70
Savory, French, bls. .....lb. .21 Nom.
Spanish, bls. .....lb. .14 - .14½
Saw palmetto berries, bgs.....lb. .24 - .25
Scammony resin, lump, cns. .....lb. 2.10 - 2.25
powd., cns. .....lb. 2.20 - 2.30
Root, bgs .....lb. .13 - .14
Schaeffer's salt, bgs. .....lb. .60 - —
Seidlitz mixture, bbls., 5,000 lbs...lb. .27½ - —
smaller lots.....lb. .28½ - —
kegs, 5,000 lbs. .....lb. .28½ - —
smaller lots .....lb. .28½ - —
Selenium, powd., cns., 10-lb. lots...lb. 2.10 - —
cs., 1,000-lb. lots.....lb. 2.00 - —
Senega root, bls. .....lb. 2.25 - 2.30
Senna leaf, Alex., half-leaf, bls. .lb. .26 - .27
siftings, bgs. .....lb. .23 - .24
Tinnevelly, No. 1, bls.....lb. .24 - .25
No. 2, bls.....lb. .18 - .20
No. 3, bls.....lb. .15 - .16
Pods, bls. .....lb. .15 - .16
Serpentaria root, bls.....lb. 3.00 - 3.25
Shellac, bleached, bonedry, bgs., 1,500-lb. lots..lb. .65½ - —
bbls., 1,500-lb. lots.....lb. .66 - —
kgs., 1,500-lb. lots.....lb. .68 - —
refined, bgs., 1,500-lb. lots.....lb. .75½ - —
bbls., 1,500-lb. lots.....lb. .76 - —
kgs., 1,500-lb. lots.....lb. .78 - —
bonedry shellac sales of less than 1,500 lbs., at following additions to prices:—1c., more for bgs., bbls., or kgs.
Lemon, No. 1, bgs.....lb. .70 - .72
No. 2, bgs.....lb. .69 - .70
Superfine, bgs., 10 bgs.....lb. .68 - .69
TN, bgs., 10 bgs.....lb. .65 - .66
Shellac in 1 to 9 bgs., 1c. more.
Silica, amorph., dry-grd. 325 mesh, bgs., c.l., Ill. works..ton 24.10 -40.00
l.c.l., works.....ton 29.00 - —
wet-grd., 320 mesh, bgs., c.l. works..ton 24.60 -40.00
l.c.l., works.....ton 29.00 - —
Hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton 20.60 - —
l.c.l., works.....ton 25.00 - —
140 mesh, bgs., c.l., works....ton 15.00 - —
l.c.l., works.....ton 20.00 - —
Tetrachloride, tech., dms., c.l., works..lb. .15½ - —
l.c.l., works .....lb. .16½ - .27
Silver bullion, ingots, cs. .....oz. 74⅝ - —
Cyanide, fib. dms., 2,500-oz. lots..oz. 62¼ - —
1,000-oz. lots .....oz. 62½ - —
500-oz. lots .....oz. 62¾ - —
250-oz. lots .....oz. 63 - —
Nitrate, CP, cryst., bots., 2,500-oz. lots..oz. 48 - —
1,000-oz. lots.....oz. 49¼ - —
500-oz. lots.....oz. 49½ - —
250-oz. lots.....oz. 49¾ - —
USP granular silver nitrate, 2c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz lots..oz. 45 - —
strong, bots., dms., 1,000-oz. lots. oz. 40 - —
Simaruba bark, bls .....lb. .85 - .86
Skullcap herb, Eastern, bls. .....lb. .85 Nom.
Western, bls .....lb. .30 - .35
Skunk cabbage root, bls. .....lb. .44 - .45
Slate flour, bgs., c.l., works.....ton 11.00 -12.00
l.c.l., ex whse.....ton 20.00 -60.00
Sloe berries, bgs. .....lb. .33 - .40
Smalt, black, ctns. .....lb. .11 - —
Blue, ctns.....lb. .16 - —
Snakeroot, Canada, bls. .....lb. .63 - .65
Soapbark, bls.....lb. .18 - .19
crushed, bls., bbls.....lb. .25 - .26
cut, foreign, bbls.....lb. .30 - .31
powd., bbls.....lb. .28 - .29
Soda ash, dense, 58%, paper bgs., c.l., works..100 lbs. 1.38 - —
l.c.l., stock points, zone 1.....
100 lbs. 2.78 - —
2 .....100 lbs. 2.88 - —
3 .....100 lbs. 3.28 - —
4 .....100 lbs. 3.83 - —
bbls., c.l., works.....100 lbs. 1.78 - —
l.c.l., stock points, zone 1.....
100 lbs. 3.18 - —
2 .....100 lbs. 3.28 - —
3 .....100 lbs. 3.63 - —
4 .....100 lbs. 4.23 - —
bulk, c.l., works.....100 lbs. 1.18 - —
light, 58%, paper bgs., c.l., works. 100 lbs. 1.30 - —
l.c.l., stock points, zone 1....
100 lbs. 2.65 - —
2 .....100 lbs. 2.80 - —
3 .....100 lbs. 3.15 - —
4 .....100 lbs. 3.75 - —
bbls., c.l., works.....100 lbs. 1.70 - —
l.c.l., stock points, zone 1.....
100 lbs. 3.05 - —
2 .....100 lbs. 3.20 - —
3 .....100 lbs. 3.55 - —
4 .....100 lbs. 4.15 - —
bulk, c.l., works.....100 lbs. 1.10 - —
Soda ash prices f.o.b. stock points in zones indicated. Minimum quantity 500 lbs. For less than 500 lbs. prices are ex-warehouse. Sales zones are: (1) All States E. of Miss R. and N. of south bound. of Ky., 31°, Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98°, N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb., W. of 98°, N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Caustic, flake, powd., 76%, dms., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd. zone 1....100 lbs. 4.60 - —
zone 2 .....100 lbs. 4.75 - —
zone 3 .....100 lbs. 6.10 - —
zone 4 .....100 lbs. 5.70 - —
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.15 - 2.25
70%, sellers' tanks, works, dry basis..100 lbs. 2.35 - —
50%, rayon type, tanks, works, dry basis..100 lbs. 2.25 - —
Soda, solid, 76%, dms., c.l., works... 100 lbs. 2.85 - —
l.c.l., dlvd. zone 1....100 lbs. 4.20 - —
zone 2 .....100 lbs. 4.35 - —
zone 3 .....100 lbs. 4.70 - —
zone 4 .....100 lbs. 5.30 - —
Prices f.o.b. stock points in zones indicated, minimum quantity 500 lbs.; for less than 500 lbs., prices are ex-warehouse. Soda caustic zones are same as soda ash.
Sal, bgs., c.l.....100 lbs. 1.35 - —
works .....100 lbs. 1.10 - —
bbls., c.l.....100 lbs. 1.40 - —
works .....100 lbs. 1.20 - —
Sodium acetate, anhyd., dms., dlvd..lb. .09½ - 11
cryst., NF, dms.....lb. .16 - .17
Alginate, refined, water soluble, bbls., works..lb. .79 - —
semi-refined, bbls. works.....lb. .42 - —
white, powd., dms. works.....lb. 1.50 - 1.60
Alkylbenzene-sulphate, dms., works. lb. 13 - —
Aluminate, for water treat., bgs., c.l., works..100 lbs. 7.60 - —
l.c.l., works.....100 lbs. 8.40 - —
other uses, bgs., c.l., works.100 lbs. 7.00 - —
l.c.l., works.....100 lbs. 7.50 - 8.00
Antimoniate, bbls., c.l., dlvd.....lb. .27 - —
l.c.l., dlvd.....lb. .27¾ - —
Arsenate, dealers, dms., c.l., works, lb. .12 - —
l.c.l., works .....lb. .13½ - .13¾
Arsenite, gray, dealers, dms., c.l., works..lb. .11¾ - —
l.c.l., works .....lb. .12½ - .13½
Benzoate, tech., bbls., 2 100s.....lb. .39 - —
smaller lots.....lb. .40 - .41
USP, o.m.s., 2 tons.....lb. .46 - —
smaller lots.....lb. .47 - .52
Sodium bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.25 - —
l.c.l., works.....100 lbs. 2.75 - —
powd., bgs., c.l., works..100 lbs. 1.85 - —
l.c.l., works.....100 lbs. 2.35 - —
Bichromate, bgs., c.l., works....lb. .09 - —
l.c.l., works.....lb. .09¼ - .09¾
Sodium bichromate, in bbls., ¼c. higher.
Bifluoride, bbls., c.l., frt. alld. E lb. .11½ - —
l.c.l., frt. alld .....lb. .13 - .14
kgs., l.c.l., frt. alld.....lb. .12½ - .14
Bisulphite, powd., bbls., c.l., works. 100 lbs. 3.50 - —
l.c.l., works .....100 lbs. 4.00 - —
solut, 32°, bbls., c.l., works..100 lbs. 1.30 - —
l.c.l., works.....100 lbs. 1.65 - —
35°, bbls., c.l., works....100 lbs. 1.40 - —
l.c.l., works.....100 lbs. 1.75 - —
40°, bbls., c.l., works.....100 lbs. 1.55 - —
l.c.l., works.....100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works. lb. .33 - .34
Cacodylate, bots., dms.....lb. 9.00 -12.00
Carbonate (see Soda ash, Soda sal, Sodium monohydrate)
Chlorate, cryst., dms., c.l., works..lb. .07½ - —
l.c.l., works .....lb. .07½ - .08
powd., kgs., works.....lb. .08¼ - —
Chloride (see Salt).
Chlorite, tech., dms., works.....lb. .75 - —
Chromate, bbls., dms., c.l., works..lb. .10¾ - —
l.c.l., works.....lb. .10¾ - .11
Citrate, USP VIII bbls.....lb. .20 - —
dms. .....lb. .21 - .25
USP XIII, gran., bbls.....lb. .26 - —
dms .....lb. .27 - .31
Sodium citrate, USP XIII, powd., prices ½c. higher.

Salt Cake—Sodium Metanilate

Sodium cyanide, 96-98%, dms.....lb. .14½ - .15
Diacetate, 33-35% acidity, bbls., works, dlvd..lb. .10½ - .11¼
anhydrous dms., works.....lb. .11½ - .13
Fluoride, white, 90%, bbls., c.l., works..lb. .09¾ - —
l.c.l. works .....lb. .09¾ - —
95% bbls. c.l., works.....lb. .09¾ - —
l.c.l., works.....lb. .10 - —
Formate, bgs., c.l. works.....lb. .0605 - .0650
l.c.l .....lb. .07 - .0790
Glutamate, monobasic, kgs.....lb. 1.46 - 1.48
Glycerophosphate, NF, flake, bbls. lb. 1.65 - 1.80
powder, bbls. .....lb. 1.70 - 1.85
solution, 75%, cbys.....lb. 1.00 - 1.10
50%, cbys. .....lb. .82 - —
Hydrosulphide (see Sodium sulphydrate)
Hydrosulphite, dms., c.l., frt. alld lb. .18½ - .19
l.c.l., frt. alld.....lb .19 - .20
Hydroxide, tech. (see Soda, caustic), USP, sticks, dms.....lb. .24 - .29
Hypophosphite, NF, cns.....lb. .67 - .70
Hyposulphite, tech., cryst., bgs., c.l., works, frt. equald..100 lbs. 2.75 - —
l.c.l., same basis.....100 lbs. 3.15 - —
pea cryst., bgs., works, frt. equald..100 lbs. 4.30 - 5.27
Soda, hyposulphite, crystals, in bbls., 40c. higher; pea crystals, dms., 50c. higher.
USP (see Sodium thiosulphate)
Iodide, USP, dms., jars.....lb. 2.72 - 2.83
Mandelate, dms. .....lb. 3.25 - 3.35
Metaborate, gran., bgs., c.l., works. ton 96.50 - —
l.c.l., works.....ton 108.00 -113.00
Sodium metaborate in bbls., $20 per ton higher
Metanilate, bgs. .....lb. 48 - —



Sodium Metasilicate—Sulphur, Precipitated

Sodium metasilicate, anhyd., bbls., c.l., works..100 lbs. 4.00 - —
gran., bgs., c.l., works.....100 lbs. 3.25 - —
l.c.l. .....100 lbs. 4.35 - 4.60
bbls., c.l., works.....100 lbs. 3.65 - —
l.c.l. .....100 lbs. 4.75 - 5.00
Molybdate, anhyd., works.....lb. .50 - —
Monohydrate, bgs., c.l., works. 100 lbs. 2.00 - —
l.c.l., works.....100 lbs. 2.45 - —
Naphthionate, bbls.....lb. .40 - .55
Nitrate, crude, dms., bgs., c.l., works. ton.40.50 - —
bulk, c.l., works.....ton.37.00 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac. whse..ton.48.00 - —
bulk, c.l., same basis.....ton.44.50 - —
Nitrite, 99%, bbls., c.l., works, frt. equald..lb. .06¾- —
West coast ports...100 lbs. 8.00 - 8.05
l.c.l., dlvd.....100 lbs. 8.90 -11.00
Orthosilicate, anhyd., dms., c.l., works..100 lbs. 5.25 - —
l.c.l., same basis.....100 lbs. 5.55 - 7.10
hydrated, flake, bbls.,c.l. works. 100 lbs. 4.25 - —
l.c.l., works .....100 lbs. 5.50 - 5.75
Oxalate, neut., bgs., works.....lb. .09 - .10
Pentachlorophenate, briquets, bgs., works, frt. equald..lb. .17 - .19
powd., bgs., c.l., same basis..lb. .16 - .16¾
l.c.l., same basis.....lb. .17 - —
kgs., l.c.l., works, frt. equald..lb. .19 - —
Perborate, USP, bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15½- —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .14 - —
smaller lots, same basis.....lb. .17 - —

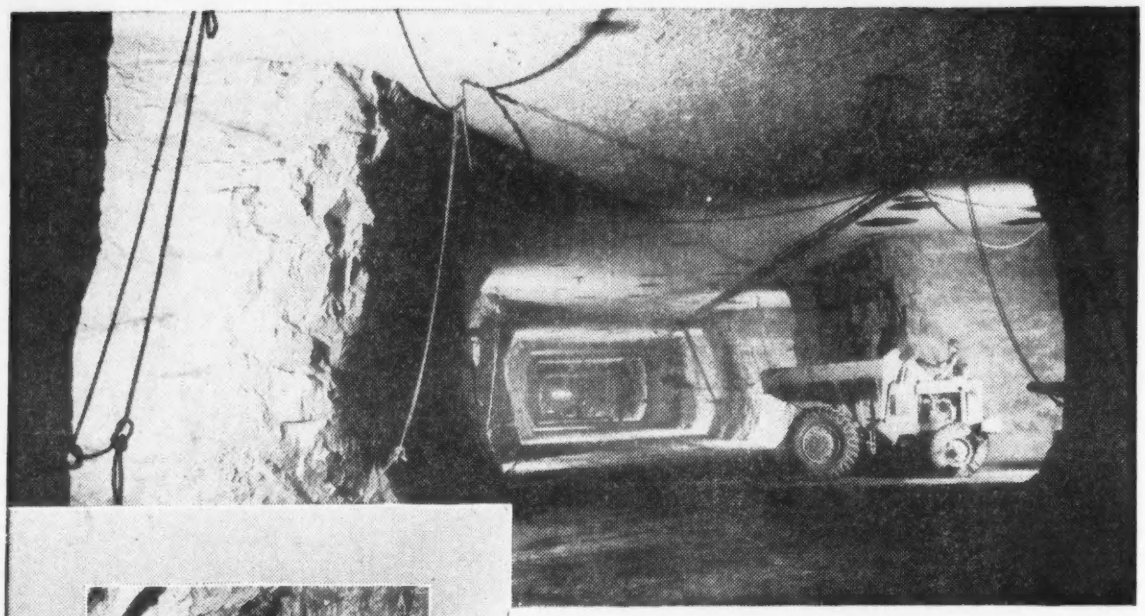
Sodium phosphate, dibasic, anhyd., bgs., c.l., works..100 lbs. 6.25 - —
l.c.l., works.....100 lbs. 6.75 - 7.00
cryst., bgs., c.l., works..100 lbs. 3.50 - —
l.c.l., works.....100 lbs. 3.75 - 3.90
NF, dried, powd., dms., works. lb. .16 - .16½
monobasic, anhyd., bgs., c.l., works. 100 lbs. 7.25 - 8.25
l.c.l., works.....100 lbs. 7.65 - 9.00
tribasic, anhyd., bgs., c.l., works, frt. equald. 100 lbs. 7.25 - —
l.c.l., same basis.....100 lbs. 7.75 - —
cryst., bgs., c.l., works, frt. equald..100 lbs. 3.40 - —
l.c.l., same basis.....100 lbs. 3.55 - —
kgs., c.l., same basis.....100 lbs. 4.25 - —
l.c.l., same basis.....100 lbs. 4.45 - —

Sodium phosphates in bbls. 40c higher than bgs.

USP (see Sodium phosphate, dibasic)
Phosphaluminate, bgs., c.l., works. 100 lbs. 7.00 - —
l.c.l., works .....100 lbs. 7.50 - 8.00
Prussiate, yellow, bgs.....lb. .12 - —
bbls. .....lb. .12¼- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald..100 lbs.10.50 -11.25
l.c.l., same basis.....100 lbs.10.75 -12.00
ferric, dms., 10,000 lbs., works. lb. .22 - —
smaller lots works.....lb. .22½- —
tetrabasic, anhyd., bgs., c.l., works, frt. equald..100 lbs. 6.00 - —
Ricinoleate, tech., bbls.....lb. No stocks
Salicylate, dms.....lb. .57 - .60
Sesquicarbonate, bgs., c.l., works. 100 lbs. 1.60 - —
bbls., c.l., works.....100 lbs. 1.80 - —

Sodium sesquicarbonate, bbls., l.c.l., dlvd., zone 1..100 lbs. 2.70 - —
zone 2.....100 lbs. 2.85 - —
zone 3.....100 lbs. 3.10 - —
zone 4.....100 lbs. 3.50 - —
Sodium sesquicarbonate l.c.l. price zones are same as those for soda ash.
Sesquisilicate, bbl., c.l., works. 100 lbs. 4.15 - —
l.c.l., dlvd. .....100 lbs. 5.40 - 5.65
Silicate, 40°, turbid., dms., c.l., works..100 lbs. 1.00 - —
l.c.l., works .....100 lbs. 1.25 - 1.35
tanks, works.....ton.15.00 - —
52°, turbid, dms., c.l., works..... 100 lbs. 1.65 - —
l.c.l., works .....100 lbs. 1.90 - 2.00
tanks, works .....ton.20.00 - —
Silicofluoride, bbls., c.l., works....lb. .06¼- —
l.c.l., works .....lb. .07 - —
Stannate, dms., works, frt. alld. E..lb. .526 - .575
Stearate, bbl., works.....lb. .19 - .24
Sulphate, NF VII, dried, powd., bbls. lb. .10 - .16½
tech., anhyd., bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.35 - 2.60
cryst. (see Glauber's salt).
USP, cryst., gran., bbls.....lb. .07 - .07½
Sulphanilate, bbls., works.....lb. .21¾- —
Sulphide, cryst., bbls., c.l., works. 100 lbs. 3.75 - —
l.c.l., dlvd.....100 lbs. 4.15 - —
flake, bbls., c.l., works....100 lbs. 4.50 - 5.50
l.c.l., works.....100 lbs. 5.00 - 5.75
lump, bbls., c.l., works...100 lbs. 4.00 - 5.50
l.c.l., dlvd.....100 lbs. 4.50 - 5.75
Sulphite, anhyd., tech., powd., bbls., c.l., frt. equald..100 lbs. 2.50 - 2.75
l.c.l., same basis.....100 lbs. 3.25 - 3.75

Sodium sulphite, crystals, bgs., c.l., works..100 lbs. 2.60 - —
l.c.l., works.....100 lbs. 3.00 - —
bbls., c.l., works.....100 lbs. 3.00 - —
l.c.l., works.....100 lbs. 5.40 - —
powd., bbls., c.l., works....100 lbs. 5.25 - —
l.c.l., works.....100 lbs. 5.50 - 6.00
Sulphocarbolate, USP, 1X, gran., bbls., dms..lb. .33 - .34
powd., bbls.....lb. .36 - .37
Sulphocyanide, CP, dms.....lb. .55 - .65
tech., dms., works.....lb. .30 - —
Sulphoricinoleate, bbls.....lb. .12 - —
Sulphydrate, flake, 70-72%, dms., c.l..lb. .05 - —
liquid, 45%, tanks, works.....lb. .04½- —
Thiocyanate (see Sodium sulphocyanide).
Titanate, ctns., c.l., works.....lb. .10 - —
5 tons, works.....lb. .10¼- —
2,000 lbs. and less, works.....lb. .10½- .13½
Tripolyphosphate, bgs., c.l., works, frt. equald..lb. .07¼- —
l.c.l. .....lb. .07¾- —
Thiosulphate, tech. (see Sodium hyposulphite).
USP, cryst., bbls.....lb. .10 - .12
Tungstate, tech., bgs.....lb. 1.40 - 1.45
Sodium-ammonium phosphate, bbls., works, frt. equald..lb. .23 - —
Sodium-carboxymethylcellulose, high vis., ctns., 2,000 lbs., works frt. alld..lb. .66 - —
smaller quantities, same basis lb .70 - —
Sodium-carboxymethyl cellulose, low and med. vis., ctns., 2,000 lbs. same basis..lb .62 - —
smaller quantities, same basis lb .66 - —
Sodium-cinchophen, bots., dms., works. lb 5.00 - 5.10
Sodium-formaldehyde sulphoxalate, stand. cont..lb. .19 - .22
Sodium-sulpha drugs (see Sulpha names).
Solvent naphtha, coaltar, dms., works. gal. .27 - .30
high-flash, dms., works.....gal. .27 - .30
Petroleum, 100° F. flash, tanks, Baytown, Tex..gal. .27 - —
150°F flash, tanks, same basis. gal. .27 - —
Sorbitol, comm'l, dms., c.l., works .lb. .25½- —
l.c.l., works .....lb. .26 - .35
Soybean flour, industrial, bgs., 40,000 lbs., works..lb. .067 - —
20,000 lbs., works.....lb. .069 - —
smaller lots, works.....lb. .071 - —
Protein, bgs., 40,000 lbs., works..lb. .29 - —
20,000 lbs., works.....lb. .29¼- —
smaller lots, works.....lb. .29½- .33
Spearmint leaves, bls. .....lb. .48 - .49
Spikenard root, bls.....lb. .45 - .46
Spruce extract, liq., reg., tanks, works. lb. .01¾- —
powd., super, bgs., c.l., works lb .05¼- —
Squaw vine, leaves, bls.....lb. .45 - .50
Squill, red, fortified, powd., bbls., boxs. lb 1.60 - —
White, bls. .....lb. .10 - .12
powd., bbls., bxs.....lb. .16 - .20
St. Ignatius beans, bgs.....lb. No stocks.
St. John's bread, edible, bls.....lb. .12 - .18
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.06 - —
Chicago .....100 lbs. 6.52 - —
l.c.l. .....100 lbs. 7.21 - —
powd., paper bgs., c.l.....100 lbs. 7.17 - —
Chicago .....100 lbs. 6.63 - —
l.c.l. .....100 lbs. 7.32 - —
Prices for corn starch in cotton bags, 17c. higher
Potato, bgs., c.l.....lb. .10½- —
l.c.l. .....lb. .10½- .16¾
Rice, bgs., c.l.....lb. No stocks
Sweetpotato, bgs., c.l.....lb. No stocks
Wheat, bgs. .....lb. .0745- .0795
Stavesacre seed, bgs.....lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls.....lb. .33 - .35
Stonecrop, bls.....lb. .07½- .08
Storax, USP, cs.....lb. 1.00 - 1.10
Stramonium leaves, bgs.....lb. .22 - .25
Seed, bgs.....lb. .20 - .21
Streptomycin, hospitals .....gram. 2.52 - —
wholesalers .....gram. 2.24 - —
Strontium bromide, NF, cns., dms. cs. .62 - .75
Carbonate, 90%, bbls.....lb. .14 - .16
98%, bbls.....lb. .23 - .25
Chloride, tech., bbls.....lb. .22 - .24
Chromate, bbls., kgs., Phila.....lb. .45 - —
Iodide, jars, 25 lbs.....lb. 3.00 - 3.06
Lactate, dms.....lb. 1.30 - 1.35
Nitrate, bbls., c.l., works.....lb. .07¾- —
l.c.l., works.....lb. .08¼- .08¾
Oxalate, bbls., works.....lb. .38 - .40
Salicylate, NF, dms.....lb 1.25 - 1.32
Sulphate, air-floated, 99% 325 mesh, bbls., works..ton.58.00 - —
Strontium-calcium sulphide, phosphorescent dms., works..lb. 2.50 - 2.85
Strophanthin, bots.....oz.30.00 -50.00
Strophanthus seed, Kombe, bgs....lb. 2.25 - 2.30
Strychnine, NF, powd., cns., 100 ozs. oz. 1.25 - —
Sulphate, USP, powd., cns., 100 ozs. oz. 1.00 - —
Styrolyl acetate, bots.....lb. 2.50 - 3.10
Sucrose octa-acetate, denat., bbls., l.c.l., works..lb. .55 - —
tech., bbls., l.c.l., works.....lb. .50 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphadiazin, USP, dms., works...lb. 9.00 - —
Sulphadiazin - sodium, USP, dms., works..lb.10.50 - —
Sulphaguanidin, USP, dms., works, lb. 4.50 - 4.60
Sulphamerazin, USP, dms., works, lb. 9.00 - —
Sulphamazerin - sodium, USP, dms., works..lb.10.50 - —
Sulphanilamide, USP, powd., bots., works..lb. 1.05 - 1.10
Sulphanilamide, 80-60 mesh, 10c. higher.
Sulphapyridin, NF, powd., bots., tins, works..lb. 7.00 - 7.80
Sulphapyridin - sodium, powd., bots., dms., works..lb. 7.80 - 7.80
Sulphathiazole, USP, powd., dms., works..lb. 3.00 - 3.15
Sulphathiazole - sodium, USP, dms., works..lb. 3.00 - 3.15
Sulphonethylmethane, NF, kgs.....lb. 6.75 - 6.85
Sulphonmethane, NF, kgs.....lb. 5.25 - 5.35
Sulphur, crude, c.l., bulk, mines, contract..long ton.18.00 - —
vessel, f.o.b. Gulf ports, export... long ton.22.00 - —
flour, comm'l, 99½%, bgs., c.l., works..100 lbs. 1.90 - —
l.c.l., works .....100 lbs. 2.00 - 2.80
precipitated, USP, bbls., kgs....lb. .18 - .20



Photographs show vast size of limestone mine operation. Shovels are 1½ yard, electrically powered; trucks are Diesels.

World's deepest

LIMESTONE MINE

TO AUGMENT raw materials supplies, Columbia mined 2,200 feet for limestone—almost beneath its plant at Barberton, Ohio.

The operation is notable in a number of other ways. Modern equipment of great size—capable of moving 300 tons of stone per hour—was assembled underground. The stone is screened and crushed; then brought to the surface by a semi-automatic hoist which attains a speed of 2,000 feet per minute and automatically brakes and dumps at the top.

This is another of numerous developments pioneered by Columbia for improved production and service to industry . . . Pittsburgh Plate Glass Company, Columbia Chemical Division, Pittsburgh 13, Pa. Manufacturers of Soda Ash, Caustic Soda, Liquid Chlorine, Sodium Bicarbonate and other alkalies and related essential industrial chemicals.

COLUMBIA CHEMICALS

CHICAGO NEW YORK BOSTON CINCINNATI MINNEAPOLIS CHARLOTTE ST. LOUIS CLEVELAND SAN FRANCISCO PITTSBURGH PHILADELPHIA

PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Sulphur, refined, flour, extra fine, bgs., c.l., works..100 lbs. 3.15 - —
l.c.l., works..100 lbs. 3.50 - 3.90
heavy, bgs., c.l., works..100 lbs. 2.55 - 3.15
l.c.l., works..100 lbs. 2.85 - 3.45
light, bgs., c.l., works..100 lbs. 2.75 - 3.15
l.c.l., works..100 lbs. 3.05 - 3.75
flowers, USP, bgs., c.l.....100 lbs. 3.00 - —
l.c.l., works..100 lbs. 3.90 - —
Refined sulphur flowers in bbls., 35c. higher
rock, bgs., c.l., works.....100 lbs. 2.75 - —
l.c.l., works.....100 lbs. 2.15 - 2.75
roll, bbls., c.l., works.....100 lbs. 2.45 - 3.05
l.c.l., works.....100 lbs. 2.45 - 3.45
rubbermakers' bgs., c.l., works, 100 lbs. 1.50 - 2.00

Sulphur chloride, 55-gal. dms., c.l., works. lb. 03½- —
l.c.l., works.. lb. 04¼- —
10-gal. dms., c.l., works.....lb 07¼- —
l.c.l., works.....lb 08¼- —
Dioxide, liquid, com'l, cyls., works, lb. 09 - —
multi-unit cars, works.....lb. 0655- —
tanks, works.....lb 065 - 0655
refrigeration cyls. l.c.l., works lb. .16 - —
Iodide, bots., tins.....lb 3.90 - 4.11
Sumac bark, 28%, grd., bgs., ex dock, ton 85.00 - —
Extract, No. 1, bbls.....lb 10½- —
No. 2, bbls.....lb. 09 - —
crystals, bbls.....lb. 10 - —
stainless, bbls.....lb. 14½- —
Leaves, 30%, bgs., ex dock.....ton 88.00 - —
Superphosphate run-of-pile, under 22% a.p.a., pulv., bulk, Balto unit-ton .46 - —
Florida.....unit-ton. 56 - 59
other points.....unit-ton. 57 - 59
Delivery points Ariz., Calif., Colo., Ida., Kans., Nev., N. M., Ore., Utah, Wash., 88½c per unit-ton plus frt. charges from Anaconda, Mont., in excess of $18.03 per ton; guaranteed 18, 19 or 20% a.p.a., ½c per unit-ton higher.
triple, 48% or more, a.p.a., pulv., bulk..unit-ton .71 - —
South Carolina.....unit-ton 75 - —
Tennessee.....unit-ton 80 - —
Prices on 48% triple superphosphate in other states and D.C., 7½c. per unit-ton plus frt. charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, bis.....lb 1.10 - 1.25

T

Talc, dom., ordinary, grd., bgs., c.l., New York works. ton 21.00 - —
l.c.l., works.....ton 22.50 -24.50
Calif., bgs., c.l., works.....ton 22.00 -30.00
Vermont, bgs., c.l., works. ton 14.00 - —
l.c.l., works..... ton 17.50 - —
fibrous, New York, off-color, ground, bgs., c.l., works..ton 21.00 - —
l.c.l.....ton 26.50 -28.00
88.95-90.95%, grd., bgs., c.l., works..ton 21.00 - —
l.c.l., works.....ton 24.50 - —
98-99.5%, grd., bgs., c.l., works, ton 25.00 -28.00
l.c.l., works.....ton 27.00 -32.00
imp., Canada grd., bgs., c.l.....ton 35.00 45.00
Tallow, inedible, extra, loose.....lb. 08½- —
fancy, loose.....lb. 09 - —
special, loose.....lb. 08½- —
sulphonated, 25%, dms.....lb. 12 - 13
50%, dms.....lb. 15 - 16
Tamarinds, bbls.....lb 16 - 19
Tankage, animal, feeding, 9-11% ammon., bulk..unit-ton 11.00 - —
Chicago.....unit-ton 11.00 - —
fertilizer 9% ammon., 10% b.p.a., Chicago..unit-ton No stocks
10-11% ammon., 15% b.p.l., bulk bulk unit-ton No stocks
Tansy leaves, bls.....lb. 15 - .16
Tapioca flour, high grades, bgs.....lb. .11½- .11½
medium grades, bgs.....lb. .10½- .10¾
Java, bgs.....lb No stocks
Tar acid oil, 15-18%, ref. dms., c.l., works. gal. .49 - —
l.c.l., works.....gal. .52 - —
tanks, works.....gal .43 - —
25-28%, dms., c.l., works..... gal. 60 - —
l.c.l., works.....gal. 63 - —
tanks, works.....gal .54 - —
Tar, coal (see Coaltar)
Pine (see Pinetar)
Tara pods, bgs., c.l., ex dock U. S. ports..long ton. No prices
powd., bgs., c.l., same basis.long ton 225.00 Nom.
Tarragon herb, bgs.....lb. 23½- 24
Leaves, bgs.....lb. 1.10 - 1.25
Tartar emetic, tech., gran., or powd., bbls., kgs. lb. 41 - —
dms.....lb 41½- 44
USP powd., bbls., dms., kgs...lb 45 - 48
Terpin hydrate, com'l, bbls., c.l.... lb 24½- —
l.c.l.....lb 25 - 25½
USP, cryst., bbls., dms.....lb. 95 - 97
powd., bbls., dms.....lb. 1.00 - 1.02
Terpineol, Alpha (see A).
com'l, dms., c.l., South.....lb 13½- —
l.c.l., South.....lb. 14 - —
tanks, South.....lb. 13 - —
pure, dms.....lb. 49 - 56
extra, dms.....lb. 47 - 75
Terpineol ether, dms., c.l., works. lb. 19½- —
l.c.l., works.....lb. 20 - —
tanks, works.....lb. 19 - —
Terpinyl acetate, extra, cns., dms. lb. 65 - 1.10
prime, cns., dms.....lb. 61 - 1.00
Terra alba (see Gypsum).
Tetrachloroethane, dms., works.....lb. 65 - 65½
Tetrachloroethylene, USP, 55-gal. dms., works. lb. 20 - 21½
smaller dms., works.....lb. 23½- 25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. 60 - —
Tetraethylenepentamine, tanks, works. lb. 80 - —
Tetrapotassium phosphate (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium sulphate, 99%, bots., dlvd. lb 15.00 -17.50
Theobromine, bots., kgs.....lb. 5.15 - —
Thiamine hydrochloride, dms., 100 grams..kilo. 100.00 - —
Thiocarbanilide, dms.....lb. 24 - —
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works.....lb 5.50 - 5.60
Thiourea, tech., dms., works.....lb 40 - —
Thorium nitrate, cs., works.....lb 3.50 - —
Thyme, French, futures, bgs.....lb. .42 Nom.
futures, bgs.....lb. 25½- 26
Spanish, bls.....lb. .12 - .12½
Thymol, USP, bgs.....lb 3.65 - 3.75
Iodine, NF, dms.....lb 3.55 - 4.25
Tiedo root (see Cube root).

Tin crystals, bgs., bbls., works.....lb. .67 - —
Metal, Bolivian.....lb. .91 Nom.
Straits.....lb. .91 - —
Oxide, bbls.....lb. .94 - —
Tetrachloride, anhyd., dms., works, lb. .54½- .55

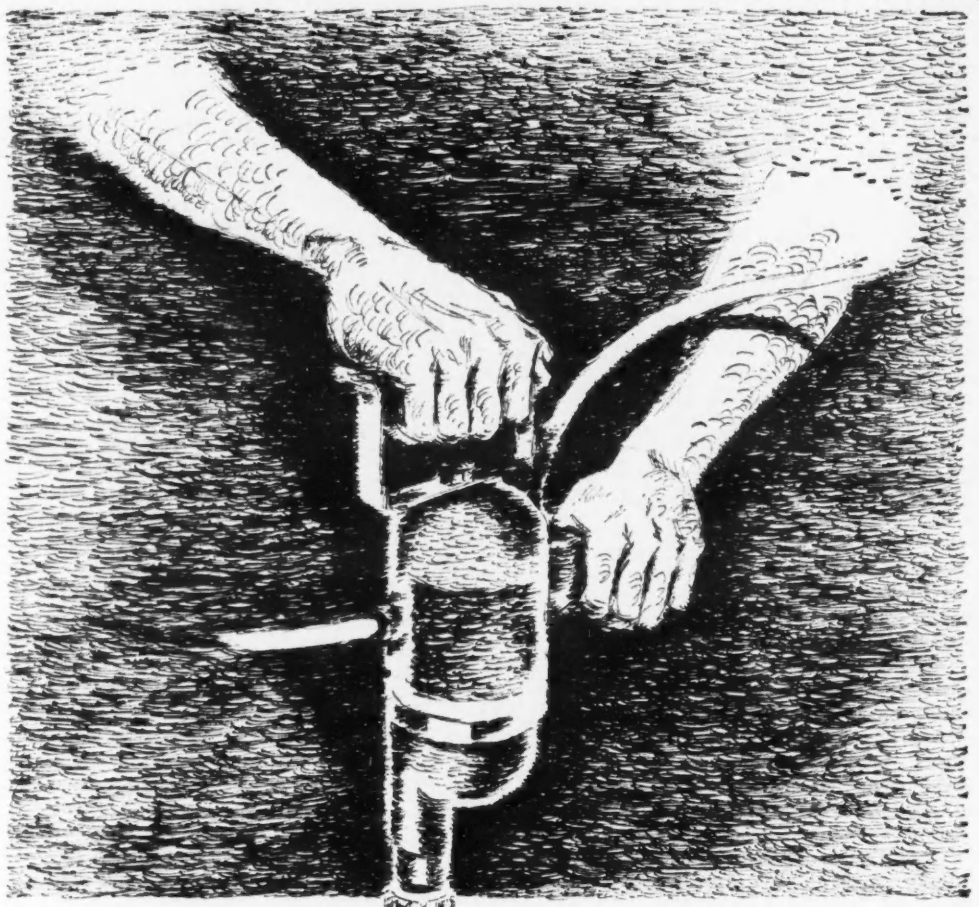
Titanium dioxide, anatase, chalk-resistant, bgs., c.l., dlvd.....lb. .17½- —
l.c.l., dlvd.....lb. 18 - .18½
plain, bgs., c.l., dlvd.....lb. .17½- —
l.c.l., dlvd.....lb. 18 - 18½
rutile, natural, granular, bgs., c.l., works..lb. 06¼- —
l.c.l., works.....lb. 06½- —
milled, bgs., c.l., works.....lb. 06½- —
l.c.l., works.....lb. 06¾- —
nonchalking, bgs., c.l., dlvd. E. lb. 19½- —
l.c.l., dlvd. E.....lb. 20 - 20½
Hydride, cns., works.....lb. 7.00 - 8.00
Pigment, barium base, bgs., c.l., dlvd..lb. .07 - —
l.c.l., dlvd.....lb. 07½- —
Calcium base, bgs., c.l., dlvd..lb. 06¾- —
l.c.l., dlvd.....lb. 07¼- —
Calcium-rutile base, bgs., c.l., dlvd. lb. 06¾- —
l.c.l., dlvd.....lb. 07¼- —
Magnesium base, bgs., c.l., dlvd.lb. No prices
l.c.l., dlvd.....lb. No prices
Titanium dioxide and pigment in bbls., ½c. higher; Pac. coast, c.l., dlvd., l.c.l., ex whse., ½c. higher
Tetrachloride, CP, 55-gal. dms., lb. .54½- .55
smaller, pkgs., works.....lb. .65 - 1.25
technical, 55-gal. dms., works..lb. .52 - —
smaller pkgs., works.....lb. .60 - 1.00
Tolu balsam, cns.....lb. 3.50 - 4.00
Toluene (see Toluol).
Tolidin base (see Orthotolidin).

Toluol (toluene), coaltar, 2° indust., ref. dms., works..gal. .35 - .37
tanks, E. of Omaha, frt. alld.gal. .28 - .30
W. of Minnequa, Colo., works. gal. .28 - .30
1° nitration, ref. dms., works..gal. .35 - .37
tanks, E. of Omaha, frt. alld.gal. .28 - .30
W. of Minnequa, Colo., works,. gal. .28 - .30
Prices on 2° toluol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (2¾c.); Detroit, 30c. (1 3/10c.); La., 30c. (3¾c.); N. C. & E. Tenn., 30c. (5c.); N. E., 30c. (2¼c.); N. J., 30c.; N. Y., 30c.; Pa., 30c. (2¾c.); S. C., 30c. (6c.); Va., 30c. (2¾c.); W. Tenn., 30c. (3¾c.), and W. Va. 30c. (2¾c.).

Tonga, 50% bark and vine, bls.....lb. .90 - .91
Tonka beans, Angostura, cks.....lb. 1.75 - 1.80
Brazilian, cs.....lb. .90 - .95
Surinam, cs.....lb. .85 - .90
Totaquine, USP, 100-oz. lots.....oz 52 - —
Triacetin, dms., works.....lb. .40½- —
Tributyl citrate, dms.....lb .41 - .50
smaller pkgs.....lb .52 - .56
Phosphate, dms., l.c.l., frt. alld., E. of Rockies..lb. .68 - —
smaller pkgs.....lb. .72 - .74
Tributylamine, dms., c.l., works..lb. .78 - —
l.c.l., works.....lb. .81 - —
tanks, same basis.....lb. 07½- 09¼
Trichlorobenzene, dms., c.l., works, frt. alld. or equald..lb. 08½- .11
l.c.l., same basis.....lb. 09½- .12
Trichloroethane, dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .17 - —

Trichloroethylene, tanks, c.l., frt. alld., zone 1..lb. .09½- —
zone 2.....lb. .10½- —
zone 3.....lb. .11 - —
zone 4.....lb. .11 - —
Trichloroethylene dm., c.l. prices ½c. higher; l.c.l. 1½c. higher. Zones are—(1) Conn., Del., Ill., Ind., Ia., Ky., Me., Md., Mass., Mich., Minn., Mo., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., W. Va., Wis., Omaha, K. C., Kan.; (2) Ala., Ark., Fla., Ga., Kan., La., Miss., Neb., N. D., Okla., S. C., S. D.; (3) Col., Mont., Ore., N. M., Tex., Wyo.; (4) Ariz., Cal., Idaho, Mont. (W), Nev., Ore., Utah, Wash.

Tricresyl phosphate, coaltar, dms., c.l., frt. equald..lb. .37½- —
l.c.l., dlvd.....lb. .38 - —
tanks, dlvd.....lb. .36 - —
petroleum, dms., c.l., dlvd.....lb. .38½- —
l.c.l., dlvd.....lb. .39 - —
tanks, dlvd.....lb. .37½- —
Triethanolamine, dms., c.l., frt. alld. E..lb. .20½- —
l.c.l., same basis.....lb. .21½- —
smaller containers.....lb. .24½- —
tanks, same basis.....lb. .19 - —
Triethyl citrate, dms.....lb. .34 - .42
smaller pkgs.....lb. .45 - —
Phosphate, dms., works, c.l.....lb. .38 - —
dms., l.c.l., same basis.....lb. .39 - —
tanks, same basis.....lb. .37 - —
Triethylamine, dms., c.l., works, basis 100%..lb. .34 - —
l.c.l., works, basis 100%.....lb. .36 - —
tanks, works, basis 100%.....lb. .30 - —
Triethyleneglycol, dms., c.l., frt. alld. E..lb. .18½- .19
l.c.l., same basis.....lb. .19½- .21
tanks, same basis.....lb. .17½- —



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OFTEN, the ability to cut through tough competition and penetrate today's markets can be attained in the laboratory, for practical chemistry puts a keener edge on the implements of progress. Sometimes this "whetting" process involves the steady supply of chemicals hitherto unobtainable in adequate quantity-with-quality; sometimes it involves the determination of formulæ which shave costs or speed production.

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AND COMPOUNDS

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VC CHEMICALS

VIRGINIA-CAROLINA CHEMICAL CORPORATION Richmond, Virginia

HAND IN HAND WITH INDUSTRY

Triethylenetetramine—Yellow, Barium Chromate

Triethylenetetramine, tanks, works..lb. .50 - —
Trimethylamine, anhydrous, cyl., works, basis 100%..lb. .29½- 30½
20%-30%, dms., c.l., works, basis 100%..lb. .29 - —
l.c.l., works, basis 100%.....lb. .29½- —
tanks, works, basis 100%.....lb. .25 - —
Triphenyl phosphate, bbls., c.l., frt. equald..lb. .29 - —
l.c.l., frt. alld.....lb. .30 - —
Triphenylguanidine, bbls., works...lb .75 - —
Tripoli, air-floated, bgs., c.l., works.lb. 0176- —
double-grd., c.l., works.....lb. 016 - —
single-grd., bgs., c.l., works.....lb. .015 - —
Trisodium phosphate (see Sodium phosphate, tribasic).
Tuba root (see Cube root).
Tungsten metal, powd., 99 %, dms., works..lb. 4.75 - —
Oxide, kgs., works.....lb. 2.85 - —
Turmeric root, Alleppey, bls.....lb. .30 - .31
Haitian, futures, bls.....lb. .13 - .13½
Jamaica, futures, bls.....lb. .15½- .16
Madras, bgs.....lb. .24 - .25
Turpentine, gum (see Naval Stores, Protective Coatings market).
Sulphate, ref. dms., East.....gal. .65 - —
tanks, East.....gal. 40 - —
Wood, dest.-dist., dms. incl., c.l., works, South..gal. .45 - —
l.c.l., same basis.....gal. .46 - —
N. Y. whse.....gal. 60 - —
steam-dist., dms. incl., c.l., works.lb. .58 - —
l.c.l., ex whse. NYC.....lb. .63 - .75
tanks, works.....lb. .35 - .50

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs.....lb. 2.55 - —
yellow, kgs.....lb. 1.65 - —
Urea, dom., 46% N, bgs., c.l., works, ton.75.00 - —
l.c.l., works.....ton.78.50 - —
fertilizer compound, 42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east..ton.81.00 - —
40 tons, frt. alld. Colo., Mont., Wyo., and west..ton.90.00 - —
paper bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dakota, Tex., and east..ton.85.00 - —
40 tons, frt. alld. Colo., Mont., Wyo. and west..ton.94.00 - —
Urea-ammonia liquor, A and B, N basis, Belle, W. Va.....ton.100.00 - —
C and D, same basis.....ton.98.50 - —
Uva ursi leaves, bls.....lb. .12 - .13

V

Valerian root, Belgian, NF, bls...lb. .45 - .48
Indian, bls.....lb. .40 - .41
Valonia beards, bgs., ex dock....ton.78.00 -80.00
Cups, bgs., ex dock.....ton.56.00 -57.00
Extract, powd., bgs., ex dock, duty extra..lb. 09½- —
Vanadium pentoxide, CP, bgs., cns., works..lb. 7.00 - —
tech., dms., works.....lb. 1.20 - —
Vanilla beans, Bourbon, tins.....lb. 7.75 - 8.50
Mexican, cuts, tins.....lb. 7.50 - 8.00
whole, tins.....lb. 8.25 - 9.50
Tahiti, tins.....lb. 4.00 - 4.25
Vanillin, ex eugenol, tins, 25 lbs....lb. 4.50 - —
smaller lots.....lb. 4.55 - 4.65
ex guaicol, tins, 25 lbs.....lb. 3.00 - —
smaller lots.....lb. 3.05 - 3.15
ex lignin, dms., 25-lb. lots.....lb. 3.00 - 4.50
tins, smaller lots.....lb. 3.05 3.15
smaller lots, tins.....lb 3.05 - 3.15
Vinyl acetate, 55-gal. dms., works..lb. .16½- .17½
5-gal. cns., works.....lb. .30 - —
tanks, works.....lb. .15 - —
Trichloride (see Trichloroethane).
Vinylpyridin, ret, dms., works....lb. 1.50 - —
Viosterol, bots., 100 billion USP units mill units .04 - —
1 billion USP units....mill units. .05 - —
100 million USP units..mill units. .07 - —
Vitamin A (see Oils, codliver, fishliver).
A concentrate, dms., works.... mill. units. .36 - .40
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran and Yeast).
B_6 (see Pyridoxin).
C (see Acid, ascorbic).
Vitamin D (see Oils, codliver and fishliver, Calcifero, and Viosterol).
D_2 (See Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-P (see Acid, nicotin, and Nicotinamide).
Violet, methyl, toner (see Mi.
V.M.P. napththa (see Petroleum naphtha).

W

Wahoo root bark, bls.....lb. 2.25 - 2.80
Tree bark, bls.....lb. .55 - .75
Wattle bark, fair average, or E. Afr., bgs., ex dock..ton.70.00 -72.00
merchantable, bgs., ex dock..ton.67.00 -69.00
extract, liquid, 35% tannin, bbls., works..lb. .07½- —
tanks, works.....lb. .06¾- —
solid, E. Afr., 61% tannin, ex dock, duty extra..lb. .07½- .07¾
S. Afr., 62% tannin, ex dock, duty extra..lb. .07½- .07¾
Wax, amorphous (see Wax, micro crystalline).
Bayberry, bgs.....lb. No stocks
Bees, bleached, USP, white, bricks, cs..lb. .70 - .73
slabs, bgs.....lb. .69 - .71
crude, African, bgs.....lb. .57 - .58
Western hemisphere, bgs.....lb. .59 - .60
refined, yellow, bricks, cs.....lb. .61 - .62
slabs, bgs.....lb. .60 - .62
Candelilla, crude, bgs.....lb. .62 - .64
refined, bgs.....lb. .67 - .69
Powdered candelilla, 20 mesh, 5c. per lb. extra, 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, No. 3, bgs, ton lots..lb. .76 - .77
North Country, No. 2, ton lots..lb. .83 - .85
No. 3, bgs., ton lots.....lb. .78 - .80
refined, bgs., ton lots.....lb. .85 - .87
yellow, No. 1, bgs., ton lots.....lb. 1.40 - 1.42
No. 2.....lb. 1.38 - 1.40
Powdered carnauba price differentials same as powdered candelilla
Ceresin, dom., 132°-136° m.p., bgs. lb. .16 - .16½
138°-140° m.p., bgs.....lb. .18 - .18½
158°-162° m.p., bgs.....lb. .22 - .23
Japan, bgs.....lb. .57 - .58
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 30 tons yearly contract, group 3 works..lb. .16 - —
smaller lots, same basis....lb. .16 - .17½
170°-175° m.p., ASTM, black ctns., 30 tons, same basis..lb. .14½- —
smaller lots, same basis....lb. .14½- .15½
white, ctns., 30 tons, same basis. lb .27 - —
smaller lots, same basis.....lb .27 - .29
190°-195° m.p., ASTM amber, ctns., 30 tons, same basis..lb. .21 - —
smaller lots, same basis.....lb. .21 - .22
190°-195° m.p., ASTM, black, ctns., 30 tons, same basis. lb. .19½- —
smaller ctns., same basis....lb. .19½- .20¼
white, ctns., 30 tons, same basis. lb. .34 - —
smaller lots, same basis.....lb .34 - .35
Montan, crude, bgs.....lb. .44 - .45
Ouricury, crude, bgs., ton lots.....lb. .69 - .70
refined, bgs., ton lots.....lb. .75 - .76
Ozokerite, black, 180-190 m.p., bgs. lb. .36 - .38
182-183 m.p., bgs.....lb. .31 - .33
171-172 m.p., bgs.....lb. .27 - .29
white, 180-190 m.p., bgs.....lb. .48 - .50
182-183 m.p., bgs.....lb. .43 - .45
171-172 m.p., bgs.....lb. .39 - .41
Spermaceti, blocks, cs.....lb. .43 - .45
cake, cs.....lb. .44 - .46
White lead (see Lead, white).
White precipitate, powd., dms., 50 lbs lb 2.00 - —
White pine bark, rossed, bls.....lb .20 - .21
Whiting, limestone, dry-grd., 325 mesh, bgs., 40 tons, St. Louis, works ton 10.00 - —
40 tons, N. Y. whse.....ton 18.00 - —
smaller lots, St. Louis, works.ton 12.50 - —
wet-grd., air-floated, 99% 325 mesh, bgs., c.l.....ton.14.50 -27.50
99% 200 mesh, bgs., c.l.....ton. No prices
99% 200 mesh, bgs., c.l.....ton. No prices
water-floated, extra gilders, bgs., c.l..ton.11.50 - —
gilders, bgs., c.l.....ton No prices
putty grade, bgs., c.l.....ton 13.00 - —
surface treated, bgs., c.l. Ohio works..ton 30.00 - —
Paris white, bgs., c.l.....ton.25.00 -31.00
l.c.l.....ton.25.00 -29.00
Precipitated, bgs., c.l.....ton 18.00 -26.00
l.c.l.....ton 22.00 -25.00
Wild cherry bark, thick, bls.....lb 06 - 07
thin, natural, bgs.....lb 17 - 18
tossed green, bls.....lb 24 - 26
Wild indigo root, bls.....lb 30 - 31
Witch hazel leaves, bls.....lb 25 - 26
Witherite (see Barium carbonate, naturali.
Woodflour, 40 mesh, bulk, c.l., works, East..ton 32.00 - —
l.c.l., same basis.....ton 40.00 - —
60 mesh, bulk, c.l., same basis..ton 37.00 - —
l.c.l., same basis.....ton 45.00 - —
80-100 mesh, bulk, c.l., same basis ton 40.00 -45.00
l.c.l., same basis.....ton.50.00 -55.00
Woodflour in bgs. extra, returnable.
Woolfat (see Lanoline)
Wormseed, American, bgs.....lb 17 - .18
Levant, bgs.....lb. 4.25 - 4.20
Wormwood, bls.....lb 50 - 60

X

Xanthorrhiza root, bls.....lb. 28 - .30
Xylene (see Xylol).
Xylenol, 5°-7°, ref. dms., c.l., works, frt. equald..lb. .21¾- —
l.c.l., same basis.....lb. .22½- —
tanks, same basis.....lb. .21 - —
fractions, ref. dms., c.l., same basis, gal. 1.53 - —
l.c.l., same basis.....gal. 1.56 - —
tanks, same basis.....gal. 1.47 - —
Xylidine, mixed, dms.....lb. .38 - .38½
Xylol (xylene), coaltar, indust., ref. dms., works..gal. .37 - .39
tanks, E. of Omaha, frt. alld..gal. .28 - .30
W. of Minnequa, Colo., works, gal. .28 - .30
90°, ref. dms., works.....gal. .36 - .38
tanks, E. of Omaha, frt. alld..gal. .31 - .33
5°, ref. dms., works.....gal. .41 - .43
tanks, E. of Omaha, frt. alld..gal. .38 - .40
8°, ref. dms., works.....gal. .45 - .47
tanks, E. of Omaha, frt. alld..gal. .40 - .42
Prices on 3 to 10-degree xylol from petroleum, tanks, delivered (maximum freight allowances in parentheses) are:—Ark., 30c. (3¾c.); Chicago, 30c. (2¾c.); Del.-Md.-D. C., 30c. (2¾c.); Detroit, 30c. (1 8/10c.); La., 30c. (3½c.); N. C. & E. Tenn., 30c. (5c.); N. E., 30c. (2¼c.); N. J., 30c.; N. Y., 30c.; Pa., 30c. (2¾c.); S. C., 30c. (6c.); Va., 30c. (3½c.); W. Tenn., 30c. (3¾c.), and W. Va., 30c. (2¾c.).

Y

Yara yara, cryst., bots., cns.....lb. 2.25 - —
Yeast, brewer's dry, 50 B units, per gram, dms..lb. .55 - —
50 B units, per gram, dms....lb. .45 - —
200 B units, per gram, dms....lb. .50 - —
200 B units, per gram, dms....lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul..lb. .32 - —
Barium chromate yellow price diffenentials in other States and city zones are those for chrome yellow below.

GOOD JUDGMENT

LIQUID DRIERS
Uversol Liquids
Linoresinate Liquids
Linoleate Liquids
Lithos
Pastes

SOLID DRIERS
Uversol Solids
Linoresinate Solids
Linoleate Solids
Soyate Solids
Fused Resinates

POWDERED DRIERS
Precipitated Resinates
Drying Salts:
Cobalt
Lead
Manganese
Zinc

The performance of Harshaw chemicals will confirm your judgment in purchasing them. For more than 50 years the selection of Harshaw chemicals has proved to be the correct choice for thousands of buyers. • The Harshaw trademark symbolizes unvarying first-line quality. It assures you that the Harshaw laboratories are striving for perfection and continuously searching for new developments . . . and that control laboratories in each Harshaw plant guard carefully the quality of the products manufactured. • You will make a correct decision . . . exercise good judgment . . . and help yourself to progress . . . when you specify Harshaw chemicals.

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1945 East 97th Street, Cleveland 6, Ohio
BRANCHES IN PRINCIPAL CITIES

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U.S.I. CHEMICAL NEWS

February ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1948

Amino Acids Seen as Aid to Thyroid Therapy

According to recent animal experiments, some of the deleterious physiological reactions resulting from excessive use of thyroid hormone have been minimized by the administration of sulphur-containing amino acids. Methionine was found to be the most effective of these amino acids. This compound is now available in large quantities at a new reduced price.

New Field Tests Indicate High Effectiveness Of U.S.I. Insect Repellents

Studies Conducted by Institute of Parasitology Show Superior Results for Triple Mix Repellents, Dimelone and Indalone Mixtures

Throughout the summer of 1947, a group of investigators from the Canadian Institute of Parasitology tested the effectiveness of 31 recognized insect repellents under actual field conditions at Canada's Laurentides National Park. Subjects of the tests were a construction company's work crew. Members of the crew, living outdoors for about 22 hours each day, were ideal targets for predatory insects abounding in this area. When final results were compiled, U.S.I. insect repellents, based on Indalone and Dimelone ranked highest in protection to these men.

It was found, for example, that a combination of 25 per cent Indalone (reg. trade mark) and 75 per cent dimethyl phthalate was much superior to uncombined dimethyl phthalate. It provided an average protection time against black flies of about 8 hours. A combination of Indalone with Dimelone (reg. trade mark) in the ratio of 1 to 3 proved to be a "very satisfactory repellent." Dimelone when combined with dimethyl phthalate in the ratio of 3 to 7, gave protection for as long as 8 hours.

To avoid the attacks of biting insects, U.S.I. insectifuge materials—Indalone, Dimelone and Triple Mix Repellents—have proved exceptionally effective in field tests conducted in a Canadian national park.

Triple Mix Potency Proven

U.S.I.'s famous Triple Mix Repellent, was tested in two forms, as the pure liquid and in cream. "Very satisfactory" results were obtained—average protection against black flies and Tabanids lasting at least 5 hours. Triple Mix Repellent contains 6 parts by weight of dimethyl phthalate, 2 parts of Indalone, and 2 parts of Dimelone. U.S.I.'s 6-2-2 and the

MORE

Oxygenated Chemicals Are Top Products From American Hydrocarbon Synthesis

SECOND OF A SERIES

Because of the interest aroused in the Fischer-Tropsch Process by the announcement in these pages that U.S.I. would market the chemical output of the first Fischer-Tropsch plants in this country, a series of articles on this important chemical development have been prepared by the editors of Chemical News. The first of these, which appeared in the January issue, discussed the origin of the synthesis and the men who invented it. The current article describes other processes using raw materials from the Fischer-Tropsch synthesis.

Germans Stressed Fuels, Oils From Fischer-Tropsch Process, Not Chemicals

Impetus behind the development of the German Fischer-Tropsch synthesis was the urgent need for self-sufficiency in motor fuels and oils. So engrossed were German scientists and engineers in meeting this demand that emphasis was never placed on obtaining chemical raw materials directly from the process. Catalysts and operating conditions were selected to yield gasoline, diesel oil, and lubricants—rather than alcohols, aldehydes, ketones and acids. This prepossession in favor of hydrocarbons by the Germans resulted in failure to capitalize on chemicals from the synthesis.

Germans Extended Fischer-Tropsch Process

Other pressing requirements in the German economy resulted in chemicals from the Fischer-Tropsch Process even if they were not directly produced in this original synthesis. It was found that a carbon monoxide molecule could be added to double bonds in unsaturated synthetic hydrocarbons to make aldehydes. This became known as the "Oxo" process. In a subsequent step, these aldehydes were hydrogenated to make primary alcohols.

A fatty acid process, the result of much German research, became fruitful when synthetic waxes from Fischer-Tropsch synthesis became available. The waxes were blown

MORE

New Resin Book Is Most Comprehensive Since War

U. S. Industrial Chemicals, Inc., has released the first comprehensive edition of U.S.I. "Resinews" prepared since the war.

Although some of the basic raw materials for resins are still in short supply, U.S.I. points out that a number of them are once again available. This condition has permitted the company to return to the manufacture of many of its prewar resins. These, as well as the resins developed during the war years, are included in "Resinews."

Copies have already been distributed to the protective coatings industry.

New Glass Said to Resist Hydrofluoric Acid Attacks

A radically new type of glass which contains no sand is alleged to resist the corrosive attacks of hydrofluoric acid and uranium pentoxide. Major ingredient of this glass is phosphorus pentoxide, the manufacturer states. Previously, the use of hydrofluoric acid presented difficulties because it could be shipped only in lead or wax containers, while in the laboratory it had to be processed in platinum or gold retorts which prevented visual observation of chemical reactions. Potential uses for the new glass include test tubes, beakers, bottles, evaporating dishes and other containers as well as safety goggles and helmets.

ADVERTISEMENT—*This entire page is a paid advertisement*

February ★ # U.S.I. CHEMICAL NEWS ★ 1948

CONTINUED

Insect Repellents

1-3 combination of U.S.I.'s Indalone and Dimelone were the most satisfactory of all repellents tested, according to the report.

Indalone and Dimelone

Indalone (*n*-butyl 6, 6-dimethyl-5, 6-dihydro-1, 4-pyrone-2-carboxylate), which had been developed by U.S.I. prior to the last war, was the first safe and successful repellent to be used by the Armed Forces. It is a light yellow to reddish brown liquid with a mild odor and a specific gravity of 1.056 to 1.062.

Dimelone (dimethyl *cis*-bicyclo [2.2.1]-5-heptene-2,3-dicarboxylate) is a water-white crystalline solid, melting point about 40 degrees C. It has a mild and pleasant odor and is soluble in Indalone and dimethyl phthalate.

It is a matter of pride to U.S.I. that of the extraordinarily small number of insect repellent materials which met the difficult war-time requirements of the Armed Services, two of the most successful—Indalone and Dimelone—should have been made by U.S.I.

Supplies on Hand

U.S.I. now supplies Indalone, Dimelone, and Triple Mix Repellent Liquid. The company also lists a Triple Mix Repellent Cream, containing 92.5 per cent of the 6-2-2 liquid mixture. All these materials are available in bulk to repellent manufacturers only.

Devises New Method For Cosmetic Color Control

A method for controlling colors of cosmetic powders, claimed to be more practicable than existing methods, was described recently before a meeting of an American scientific society. A line of face powders, the inventor explained, may include 20 shades, all within the narrow range of "flesh." This poses an exacting problem for the control chemist.

In the new procedure, the standards are made up of white papers, coated with a thin paste composed of a powder in a rapidly-drying nail lacquer of known composition. A special apparatus has been devised to coat the papers to a uniform thickness. The standard paper strips are compared with unknowns in a newly invented optical chamber.

Alcohol Is Ingredient Of New Trench Mouth Solution

According to an item in an American medical journal a treatment for trench mouth consists of irrigating the affected area with hydrogen peroxide, drying it with cotton, and soaking the area with a dye solution. The solution is described as containing crystal violet, brilliant green, alcohol, and water.

CONTINUED

Oxygenated Chemicals

with air in the presence of a catalyst and the resulting acids applied to a variety of uses. One important use was a raw material in the Palatinol Process in which the acids were esterified with "Oxo Process" alcohols and other alcohols to make high boiling solvents and plasticizers.

Margarine From Coal

A unique application of well known chemistry was the "Edible Fats" process. Had it been initiated in this country, its advertisers would have publicized it as "Margarine from Coal." A purified fraction of synthetic fatty acids, eight to twenty carbon atoms in length, was reacted with synthetic glycerin to yield glycerides or fats similar to the oils in butter or oleomargarine. Glycerine was obtained synthetically by the chlorination of propylene, obtained in hydrocarbon synthesis, using the same process as developed in this country. The purified fats were emulsified in enough water to produce a butter consistency, color and vitamins added and the product distributed to German tables. In taste, appearance and utility it resembled margarine made here. Chemically it was very similar.

American Process

But the above examples are extensions to the Fischer-Tropsch Process, not part of it. The Hydrocarbon Synthesis Process from which U.S.I. will market the water-soluble oxygenated chemicals, will produce alcohols, aldehydes, ketones and acids directly. In addition, because of American engineering, it will incorporate vast improvements which will produce chemicals at costs competitive with those from other sources. With these materials, U.S.I. can increase its already extensive service to the chemical industry.

TECHNICAL DEVELOPMENTS

Further information regarding the manufacturers of these items may be obtained by writing U.S.I.

For proper floor finishing and maintenance, a compact slide-rule guide has been made available which is said to supply information on the proper finishing materials and application methods for all types of floors. **(No. 285)**

A portable hydrogenation unit is described as compact and completely mobile, and is probably the first of its type to be marketed commercially. **(No. 286)**

Data on material handling are contained in a new directory said to be the first compendium of material handling equipment ever published. **(No. 287)**

A glass that conducts electricity is said to be fully transparent and may be heated to almost any desired temperature. **(No. 288)**

A microscope no larger than a fountain pen is adjustable to give 40, 50 or 60 power self-illuminating magnification, the makers state. It is said to be useful in examining minute detail in shop, office, or laboratory. **(No. 289)**

A stain-, scar-, and flame-resistant flooring is alleged to possess an excellent resilience, yet longer wearing qualities than rubber floor covering. Neither moisture nor alkalis will injure this material, it is stated. **(No. 290)**

A "superstrong" industrial tape is described as combining two materials: a fiberglas cloth backing having exceptional strength and resistance to deterioration, and a vulcanizable adhesive mass that more than doubles its strength after curing. **(No. 291)**

Silica powder of microscopic fineness and high purity is claimed to form staple suspensions in water and in many organic liquids. Greater strength and improved pigment dispersion results, according to the manufacturer, when this powder is added to many plastic materials. **(No. 292)**

A new line of foil wrappings, said to be suitable for use on standard machines, is claimed to make strong heat seals and offer excellent protection against moisture, odors, and sunlight. **(No. 293)**

A "robot chemist" which determines the chemical content of gases and vapors quickly and accurately, and which automatically records its findings, is said to be so sensitive that it can detect traces of gas in proportions as low as 1 in 100,000. **(No. 294)**

U.S.I INDUSTRIAL CHEMICALS, INC.

60 EAST 42ND ST., NEW YORK 17, N. Y. U.S.I. BRANCHES IN ALL PRINCIPAL CITIES

ALCOHOLS
Amyl Alcohol
Butanol (Normal Butyl Alcohol)
Fusel Oil—Refined

Ethanol (Ethyl Alcohol)
Specially Denatured—all regular and anhydrous formulas
Completely Denatured—all regular and anhydrous formulas
Pure—190 proof, C.P. 96% Absolute
*Super Pyro Anti-freeze
*Solox proprietary Solvent

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Ansol M
Ansol PR

*Registered Trade Mark

ACETIC ESTERS
Amyl Acetate
Butyl Acetate
Ethyl Acetate

OXALIC ESTERS
Dibutyl Oxalate
Diethyl Oxalate

PHTHALIC ESTERS
Diamyl Phthalate
Dibutyl Phthalate
Diethyl Phthalate

OTHER ESTERS
*Diatol
Diethyl Carbonate
Ethyl Chloroformate
Ethyl Formate

INTERMEDIATES
Acetoacetanilide
Acetoacet-ortho-anisidide
Acetoacet-ortho-chloranilide
Acetoacet-ortho-toluidide
Acetoacet-para-chloranilide
Alpha-acetylbutyrolactone
5-Chloro-2-pentanone
5-Diethylamino-2-pentanone
Ethyl Acetoacetate
Ethyl Benzoylacetate
Ethyl Alpha-Oxalpropionate
Ethyl Sodium Oxalacetate
Methyl Cyclopropyl Ketone

ETHERS
Ethyl Ether
Ethyl Ether Absolute—A.C.S.

FEED CONCENTRATES
Riboflavin Concentrates *Vacatone 40
*Curbay B-G *Curbay Special Liquid

ACETONE
Chemically Pure

RESINS
Ester Gums—all types
Congo Gums—raw, fused & esterified
*Araplaz—alkyds and allied materials
*Arofene—pure phenolics
*Arochem—modified types
Natural Resins—all standard grades

OTHER PRODUCTS
Collodions
Ethylene Glycol
Nitrocellulose Solutions
Insecticide Materials
Ethylene
Urethan
DL-Methionine
Insectifuge Materials

Printed in U.S.A.

V1531G FEB 1948 XUM

Yellow, benzidin, bbls., dlvd.	lb.	1.60	- —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies	lb.	2.40	- —
Lithopone, all shades, bbls., frt. alld. E. of Rockies	lb.	.85	- —
Cadmium yellows, Los Angeles and San Francisco, ex whse. 1c. per lb. higher.			
Chrome, CP, bbls., dlvd. N. Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts	lb.	.27	- —
Dlvd. Ala., Fla., Ga., La., (Shreveport), 1½c. higher; Miss., N. C., S. C., Tenn., Dallas, Tex., 1½c. higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex., 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago			
Hansa, bbls., same basis as chrome.	lb.	1.60	- —
Primrose, bbls., same basis	lb.	1.90	- —
Iron oxide, natural, bgs., c.l., works.	lb.	.01½	- .02¾
l.c.l., works	lb.	.02½	- .03¾
French type, bgs., c.l.	lb.	.04	- —
l.c.l.	lb.	.04½	- —
Peruvian type, bgs., c.l.	ton.	27.00	-32.00
synth., bgs., c.l., works	lb.	.08½	- —
l.c.l., works	lb.	.08½	- —
Mercury oxide, bbls., 1,000 lbs.		1.95	- —
smaller lots	lb.	1.95	- —
Ocher, American, golden, bgs., works.	lb.	.01½	- .02½
Zinc, bbls., same basis as chrome.	lb.	.20	- —
Yellow dock root, bls.	lb.	.25	- .27
Yellow xanthorrhiza (see Xanthorrhiza).			
Yerba santa leaves, bls.	lb.	.45	- .50
Yohimbine hydrochloride, vls.	oz.	3.25	- 4.00

Z

Zein, bgs., 1,000 lbs., works	lb.	.25	- —
smaller lots works	lb.	.30	- —
Zinc acetate, tech., bbls., dms.	lb.	.20	- —
NF, dms.	lb.	.39	- .40
Arsenite, bgs., c.l., frt. alld. E. of Rockies	lb.	No stocks	
l.c.l., same basis	lb.	No stocks	
Carbonate, tech., rubber makers', bbls., works	lb.	.10¾	- .11⅝
USP, precip., powd., bbls	lb.	.35	- —
dms.	lb.	.40	- —
kgs.	lb.	.37	- —
Chloride, tech., fused, dms., c.l., works, 100 lbs.		6.25	- —
l.c.l., works	100 lbs.	6.55	- —
gran., bbls., c.l., works	100 lbs.	7.00	- —
l.c.l., works	100 lbs.	7.40	- —
solution, 50%, dms., c.l., works	lb.	.0365	- —
l.c.l., works	lb.	.0425	- —
tanks, works	lb.	.0309	- —
USP, gran., dms.	lb.	.30	- .3
jars	lb.	.35	- .3
Chromate (see Yellow, zinc).			
Cyanide, kgs., works	lb.	.34	- .35
Diethyldithiocarbamate, dms., works.	lb.	1.15	- —
Dust, bbls., c.l., dlvd.	lb.	.1250	- .1200
l.c.l., dlvd.	lb.	.1275	- .1300
Fluoride, bbls., works	lb.	.18	- .19
Hydrosulphite, dms., works	lb.	.16	- —
Iodide, NF, jars	lb.	4.65	- —
Laurate, bbls.	lb.	.45	- .46
Linoleate, solid, 9½%, bbls.	lb.	.56	- —
Metal slabs, E. St. Louis	lb.	.12	- —
Naphthenate, liquid, 8% Zn, dms.	lb.	.19¾	- —
10% Zn, dms.	lb.	.24	- —
solid, 14% Zn, dms.	lb.	.31¾	- —
Oleate, bbls.	lb.	.45	- —
Oxide, pigment, dom., acicular, bgs., c.l., ship't point, frt. alld.	lb.	.10	- —
l.c.l., works	lb.	.10¼	- —
American process, com'l lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.10	- —
l.c.l., works	lb.	.10¼	- —
leaded, 5%, bgs., c.l., ship't point, frt. alld.	lb.	.10	- —
l.c.l., works	lb.	.10¼	- —
35%, bgs., c.l., ship't point, frt. alld.	lb.	.11¾	- —
l.c.l., works	lb.	.12	- —
50%, bgs., c.l., ship't point, frt. alld.	lb.	.12⅝	- —
l.c.l., works	lb.	.12⅝	- —
French process, com'l, lead-free, bgs., c.l., ship't point, frt. alld.	lb.	.12¼	- —
l.c.l., works	lb.	.12½	- —
green, seal, bgs., c.l., ship't point, frt. alld.	lb.	.11¾	- .13¼
l.c.l., works	lb.	.12	- .13⅛
red seal, bgs., c.l., ship't point, frt. alld.	lb.	.11¾	- .12¾
l.c.l., works	lb.	.11½	- .13
white seal, bgs., c.l., ship't point, frt. alld.	lb.	.12¼	- .13¾
l.c.l., works	lb.	.12½	- .14
USP, ctns., c.l., ship't point, frt. alld.	lb.	.13¼	- .14¾
l.c.l., same basis	lb.	.13½	- .15

Zinc oxide Pac. coast prices ¾c. higher; bbls., prices ¼c. higher than bgs.

Resinate, fused, 9% Zn, powd., solution, 50%, dms., c.l., works	lb.	.0365	- —
Silicofluoride, bbls., works	lb.	.11	- —
Stearate, ctns., 2,000 lbs.	lb.	.51	- —
smaller lots	lb.	.52	- —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	4.15	- —
l.c.l., same basis	100 lbs.	4.90	- —
flake, 25½% Zn., bgs., c.l., same			
l.c.l., same basis	100 lbs.	5.55	- —
powd., 36% Zn, bgs., c.l., same basis	100 lbs.	6.75	- —
l.c.l., same basis	100 lbs.	7.50	- —
Zinc sulphate in bbls., 40c higher			
Sulphide, pure, bgs., c.l., dlvd.	lb.	.10½	- —
l.c.l., works	lb.	.10¾	- —
Barium pigment, bgs., c.l., dlvd	lb.	.07½	- —
l.c.l. works	lb.	.07¾	- —
Calcium pigment, bgs., c.l., dlvd.	lb.	.07½	- —
l.c.l., works	lb.	.07¾	- —
Luminescent pigment, frt. alld.	lb.	1.00	- 3.00
Magnesium pigment, bgs., c.l., dlvd.	lb.	.07½	- —
l.c.l., dlvd.	lb.	.07¾	- —
Zinc sulphide and pigment, Pac. coast prices ¾c. higher; bbl. prices ¼c. higher than bgs.			
Sulphocarbolate, NF, gran., bbls., dms.	lb.	.28	- .29
powd., bbls.	lb.	.31	- .32
Yellow (see Yellow, zinc)			
Zinc-ammonium chloride, bbls., c.l., works	100 lbs.	7.15	- —
l.c.l., works	100 lbs.	7.55	- —
Zinc-cadmium sulphide, fluorescent, ctns., frt. alld.	lb.	2.00	- 2.80
Zinc-formaldehyde sulphoxalate, basic, dms., works, frt. alld.	lb.	.17	- —
normal, dms., works, frt. alld.	lb.	.35	- —
Zinc-iron oxide pigment, bgs., c.l. dlvd.	lb.	.08½	- —
Pac. coast	lb.	.09¼	- —
l.c.l., dlvd. E. of Rockies	lb.	.09	- —
Pac. coast	lb.	.09¾	- —

Zircon (see Zirconium silicate).

Zirconium acetate, solution, bbls., works	lb.	.25½	- —
Hydride, ctns., works	lb.	7.00	- —
Oxide, 88%, 92%, grd., bbls. or bgs., any quantity, works	lb.	.25	- —
98½-99%, white, grd., bbls. or bgs., works	lb.	1.50	- —
lump, electric-fused, bgs., c.l., works	lb.	.44	- —
5 tons, works	lb.	.44½	- —
2,000 lbs. and less, works	lb.	.45	- .48
milled, electric-fused, bgs., c.l., works	lb.	.59	- —
5 tons, works	lb.	.59½	- —
2,000 lbs. and less, works	lb.	.60	- .63
Oxychloride, cryst., ctns., 5 tons, works	lb.	.29½	- —
Silicate, granular, bgs., c.l., works,	lb.	.03¾	- —
5 tons, works	lb.	.04	- —
2,000 lbs. and less, works	lb.	.04¼	- .04¾
milled, bgs., c.l., works	lb.	.04¾	- —
5 tons, works	lb.	.05¼	- —
2,000 lbs., works	lb.	.05¾	- .06⅛
refined, bgs., c.l., works	lb.	.11	- —
5 tons, works	lb.	.11½	- —
2,000 lbs. and less, works	lb.	.12	- .16
Sulphate, basic, cake, ctns., c.l., works	lb.	.37½	- —
5 tons, works	lb.	.38	- —
2,000 lbs. and less, works	lb.	.38½	- .39

Synthetic Resins

The customary monthly listing of prices for synthetic resins and other branded paint materials was printed in the Jan. 5 issue of OPD.

Paraffine Companies Plans To Increase Common Stock

The Paraffine Companies, San Francisco, has received approval from its stockholders to increase its authorized number of shares of common stock from 700,000 to 2,500,000 shares and to change and convert each share of issued and outstanding common stock into three shares of the same stock without any change in the capital of the company.

Sun Oil Creates Two New Marketing Districts

Sun Oil Company, Philadelphia, has created new marketing districts at Beaver and Brownsville, Pa., and has named Thomas D. Higgins district manager at Beaver and H. Page Dyer district manager at Brownsville. Both offices formerly occupied branch office status in the company's marketing set-up. Mr. Higgins was formerly regional manager of tires, batteries and accessories sales in the Pittsburgh office, and Mr. Dyer was previously manager of the Brownsville branch office.

Fuel Oil Price Rise Investigation Asked

OPD Washington Bureau

The house committee on interstate and foreign commerce last week requested the Department of Commerce to undertake an immediate investigation of national and local increases in fuel oil prices and to recommend necessary steps to avoid unwarranted price rises.

The committee also urged that the department give close attention to the possible use by major oil companies of present and future oil shortages to undermine the competitive position of independent refiners except under so-called processing contracts, which obligate the independent to sell back the more desirable product to the supplying company.

Another recommendation of the committee was that appropriate government authorities give immediate consideration to whether steel should not be allocated for expanded petroleum production, refining and distribution facilities rather than for petroleum consuming equipment.

TWO KINDS of chemists work in our plants and laboratories. Many have doctor's degrees and look just like the rest of us. You can regularly find them at work on our customers' problems. Others are invisible—at least to the unaided eye. These latter are the various bacteria, yeasts, and molds which, no less than human chemists, are capable of manufacturing chemicals.

These two kinds of chemists illustrate the two ways in which Commercial Solvents products are made. The human chemists take natural gas, for instance, and by means of heat, pressure and catalysts rearrange its molecules to form formaldehyde, the nitroparaffins and the methanol which, made into anti-freeze, protects the radiator of your car in winter. The microscopic "chemists" take grain or other carbohydrate materials and by fermentation convert them into alcohol, butanol, acetone, riboflavin and penicillin.

These two chemical processes, synthetic and biological, are used by Commercial Solvents to make chemicals. Through its knowledge and skill in both, CSC serves medicine, industry and agriculture.

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Volume 153 February 9, 1948 Number 6

Paint in the Plant

A scheme of standardized painting of factory interiors has been published by the American Standards Association. It is not an "official" set of specifications, but rather an individually compiled list of suggestions with respect to the objectives of such painting and the factors with which it has to do. The one adverse criticism that might be presented is that too many details are laid out. These are all valuable, but their number—there are four general factors, with ten subdivisions and a further subdivision of one of them into thirty purposes—will frighten away many who otherwise would be interested. The factory-painting idea, however, should be vigorously pushed.

The most desirable objective in a factory-painting job is the improvement of the morale of the workers. Safety, efficiency, and other "profitable" results should be secondary in consideration. They will follow the uplifting of morale which is an assured consequence of anything that makes for a more pleasing atmosphere in which work is done.

Painting the interior of a factory is more a matter of satisfaction than of standardization, and as such it is one of the best investments that can be made toward the improvement of employment relations. It does not require a doctor's degree in psychology to know that workmen always do a better job in surroundings with which they are pleased and in which they can take pride. It is an old saying that a sloppy shop turns out sloppy work. But, it is still a hard job to sell even the improvement that a good painting job would do. If that were not true, sales of paint would be at least twice what they are now.

Utilization of Waste

Those who are concerned with the practical application of science, even in its lower-brow guise of technology, to everyday problems are encouraged by the fact that a way was found to make commercial use of the latest whale to be stranded on the Atlantic shore. After several futile attempts to dispose of the marine mammal's carcass in the customary waste-dumping manner, somebody somehow contrived to have it cut up with a power-saw, bulldozed to a highway, and trucked to a fat-rendering plant. A century ago, when the American standard of living had not yet reached today's heights of cost and elegance, a dozen kettles would have been bubbling blubber in the dead whale's vicinity before sundown of the day of its discovery. Progress is a peculiar process.

There is more of loftier science in the plan now under study for commercial utilization of the 100,000,000 pounds of fish waste annually available at the Alaskan salmon canneries. Heretofore that waste has gone to sea via the costly dumping route. It is now being analyzed technically and economically as a source of pharmaceutical and other chemicals. A $2 government report has been got out on the project up to January, this year. There may be large unit values in the histone, protamine, and various proteins with which the salmon scientists are concerning themselves; but, with fishscrap selling for what it brings today, there would seem to be a shorter cut to profitable utilization of the cannery waste.

Perhaps that idea is too simple for American standards of this or that: thrift apparently is not high-standard living. It might fit better into the economy of, say, the Netherlands where it apparently pays to have 2,000 persons gathering potato peelings from fifty-five towns as feed for dairy cattle. In any event, that utilization of waste is said to obviate the importing of 18,000,000 guilders' worth of feed.

The Public Be Damned

Congress apparently has ditched the proposal for a new scheme of meat-rationing. A senatorial subcommittee has turned thumbs down on it. What may eventuate with respect to the supply of meat between now and the Fall election might prove sufficient to effect a reversal of that action. But, so far, no threat to the rule of the vociferous minority is discernible.

The antirationing senators doubtless were scared into that attitude by the dismal pictures of black marketing which were presented at their hearings on the rationing bill by representatives of growers, feeders, and processors of meat animals. As those typical citizens told the story, the public could be damned. If meat was rationed, they would curtail operations, even though Americans might be reduced to a "diet of parched corn and boiled hay."

Because there was no provision for price-control in the meat-rationing bill it is difficult to see how rationing would in any way curtail the consumption of meat, unless prices were boosted beyond all attainable levels. That, of course, is a possibility which steadily becomes more probable. The effects of that trend will reduce consumption still more than it has been cut. And the remaining patrons of profiteers will not be enough to support a satisfactory market.

Of course, rationing would tend to revive black marketing, which in large part would be fed by those who now deplore it. But, a black market would not be inevitable. The popular comparison of black marketing with bootlegging in the prohibition era is not rational. The weight of public sentiment is on the other side with reference to black marketing. And the public would help earnestly in the enforcing of a law which justly would lay an adequate penalty on those who provide black markets and those who patronize them.

All that, obviously, is too much to expect when offices must be retained. The blessing of the syndicalistic pressure groups must be had. The public be damned!

Washington Talks It Over

—*Continued from page 5*

ness enterprise, or a group of business enterprises under common ownership or control, which is not dominant in its field and which:—

"(a) if a manufacturing enterprise, has 100 employees or less, or

(b) if a wholesale establishment, has less than $500,000 annual net sales volume; or

"(c) if a retail, service, hotel, amusement, construction or other enterprise not included under (a) or (b), has annual net sales or receipts of less than $100,000; or

"(d) if engaged in two or more separate types of businesses, does not exceed the maximum applicable under either (a), (b) or (c) to any of such business."

Stockpiling Acceleration Planned

The Army and Navy Munitions Board is planning to step up its stockpiling activities on a big scale just as soon as it can get more funds from Congress for the program. It has a budget request into the house appropriations committee of $360,000,000 for stockpiling expenditures, the money to be available just as soon as the appropriation is passed instead of July 1, the usual date.

About $239,000,000 was spent for stockpiling during the current fiscal year. This included $110,000,000 of appropriations made last July, about $54,000,000 of funds left over from the previous year and $75,000,000 of contractual authority. Thus, the request for additional funds means stepping up the pace of the program by about 50 percent.

One of the newer stockpiling proposals under consideration is petroleum. When the law was first passed two years ago, army and navy officials talked down the idea of stockpiling petroleum as not being practical. They are now taking a different view of the situation. They also are stressing shortages in other materials as a talking point in support of the increased appropriation.

Export Controls Argued

There is considerable speculation in Washington whether the Department of Commerce will not find it necessary to extend its new export license program to cover the entire world. After March 1, all shipments to Europe will move under individual licenses while those to other areas will go under general license unless the commodity involved is on the positive list.

One of the main objectives of the new export license policy is to see that Marshall plan funds are not spent by Europe for non-essentials. Also it will enable officials to keep tabs on the amount of essential materials going to each country. But, troubles are foreseen in controlling shipments to only half of the world. The restrictions can be too easily avoided by intermediaries set up in Latin America or other areas outside of Europe.

Meanwhile, Congress is beginning to be pressured by various groups to require some changes, not only in the new individual export licensing program, but in the earlier important licensing policy announcement of issuing licenses on a price preferential basis.

Conservation Is Long-Term Need

Secretary of the Interior J. A. Krug is urging industry to adjust its thinking on supply and demand problems from a short-term to a long-term point of view, covering a span of as much as twenty years to anticipate the needs of a growing population. He estimated that, by 1990, industry will be called upon to meet the demands of 165,000,000 people.

In its planning he also advocates the giving of much thought by industry to substitution of the inexhaustible for the exhaustible and by avoiding use of the precious and rare in place of the commonplace. The nation has a long way to go to repair past damage to natural resources and there is an urgent need for real conservation of natural resources. Just how badly depleted some of the resources are will be known when the Geological Survey completes its current surveys.

One of the greatest needs of the nation today is the discovery of new oilfields, but it is imperative that the nation look beyond that to achieve petroleum security. More extensive research on preparation methods which will convert large reserves of low-grade coals into materials for metallurgical use is called for. Half of the 230,000,000 acres of rangelands in the West, where a large portion of the livestock requirements of the country is produced, need restorative attention.

Bureaucratic Fertilizer Ideas

The American Farm Bureau Federation is still plugging hard for congressional enactment of legislation to put the government into the fertilizer business. At its recent convention the federation sought to mollify the opposition by agreeing that the proposed Mobile (Ala.) plant should be placed in standby position after five years' operation by TVA if private industry refused to buy it, but after hearings later before the senate agricultural committee on a long-range farm program, the concession was absent from the statement of the federation's president. This is what the federation had to say to the committee on the fertilizer subject:—

The American Farm Bureau Federation believes that a national soil-fertility program is essential to the long-time welfare of the nation. The fertilizer industry should be encouraged to expand its plant capacity for the production and distribution of fertilizers. Farm organizations should acquire natural resources of phosphate and potash and develop programs for the production and distribution of high-concentrated materials. The Tennessee Valley Authority should construct and operate an experimental phosphate plant, for a period of not to exceed five years. At the end of that time the plant should be disposed of to private industry. The TVA should acquire reasonable phosphate reserves in the Florida area. The mountain area should be developed. A limited test demonstration program should be provided for under the direction of the Secretary of Agriculture in cooperation with the land-grant colleges.

Government Needs Men

Because the National Military Establishment has become, and is destined for some time, to remain the biggest single agency of the Federal government, there is a big question developing in the minds of its top officials as to who should run this business.

Secretary of the Army Royall put it up to the leaders of industry recently at a speech before the Boston Chamber of Commerce in a manner that demands real consideration by industrialists. Should such an establishment, bigger than any private organization in the world, be run by untried or experimental talent—or by those who have proved their worth? The answer, he said, is obvious.

Mr. Royall is suggesting that corporations, unions, and farm organizations, in their own interest and as a service to the country, make their most promising young executives available to the government for a year or two, even if that service be a personal and financial sacrifice. The government needs men who are not seeking top positions for reasons of finance or personal advancement, but men who have proved themselves by marked civilian success.

Grain Going to the Hogs

The government's appeals for conservation of grains are not going over as well with the hog-raisers as earlier indications in the campaign led officials to believe. And as a consequence, unless the hog-raisers get back into the stride of the grain-conservation program, it may be necessary to revise previous estimates of lard production upward this year.

Latest reports indicate that the weights at which hogs have been marketed in January average close to those for the same period last year. From September through December, hogs were marketed at average weights of 5 pounds to 15 pounds below the same months in 1946; but, for the week ending January 24, the average was 255 pounds or only 1 pound below the average last year.

Seasonal factors probably account in part for the increase in weights of hogs marketed in January. However, the fact that the previous spread between weights this year and those of a year ago has largely disappeared is significant from the standpoint of grain conservation. It took grain to get this extra weight, part at least of which is fat.

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Heavy Chemicals

Higher prices have been established for nickel sulphate. Producers have been absorbing the mounting costs of labor and freight rates for more than a year and have made a revision to cover the higher cost to manufacture. In one producing quarter it was stated that the advance in freight rates alone was equivalent to ¼c. per pound. Other nickel based chemicals including carbonate and chloride were also priced higher. The trade is expecting an advance in prices of zinc sulphate as soon as the metal market is stabilized at a higher level. It is said to be likely that the revision will be adjusted to a works' basis instead of a freight allowance.

Spotty demand and a slight backup of stocks have improved the supply position of chlorine although producers do not look for any permanent easement in stocks. Weather conditions appear to have slowed down the urgent demand for dense soda ash from the glass industry and the supply situation was described as a shade easier although prospects are said to be favorable for a pickup before the end of the month. Caustic soda continued definitely short, the dry forms remaining tighter than the liquid. Sodium chlorate maintained a firm position with heavy bookings entered for March and April.

Progress has been made with shipments of potassium chlorate to the match factories. It is stated that deliveries are only about two weeks behind schedule. Phosphorus has continued short of requirements and this condition is reflected throughout the phosphate markets. Oxalic acid shipments are restricted to contract consumers and are running 30 to 60 days behind schedule. Glacial acetic acid has remained in a fair state of balance with no sign of accumulations. Naphthenic acid was described as firm with stocks inclined to tighten under a steady demand from the paint trade. An advance of $3.00 an ounce was noted in platinum.

Austria's imports of chemicals in the third quarter of 1947 were valued at 10,635,000 schillings (10 schillings equal $1.00, United States currency). Chemical exports had a valuation of 8,845,000 schillings.

Paper production based on a percentage of six-day capacity was 103.6 percent for the week ending January 31, according to the American Pulp and Paper Association. This compares with 101.1 in the preceding week and 104.0 for the corresponding week in 1947.

Production figures appearing below unless otherwise designated are from the Chemical Division of the United States Tariff Commission.

Acetic Anhydride—Production in November was at a higher level than any previous month in 1947. The total was 55,346,923 pounds, compared with a previous high established at 55,070,604 pounds in October. This material was made from ketone, acetylene and from acetic acid by the vapor phase process.

Ammoniac Sal—Although production of white granular is running close to contract schedules there is no indication of excess stocks in the near future. The gray variety is about in the same condition as white with the exception of the course grade which is in relatively short supply at the present time.

Bauxite—Hungarian Parliament is considering a bill to nationalize bauxite and aluminum production according to advices from Budapest. Output of bauxite declined from 540,000 tons in 1938 to 137,000 tons in 1947, it was stated, and aluminum production fell from a peak of 9,870 tons in 1944 to 1,970 in 1946.

Carbon Disulphide—November occasioned a new high production for the eleven months recorded in 1947. The total registered 30,733,977 pounds, compared with 30,492,113 pounds in the preceding month.

Carbon Tetrachloride—Another new high production record was made for 1947. The total was 18,057,688 pounds, compared with 14,919,436 pounds in October and a previous high of 17,829,018 pounds registered in March. The market's supply position is in better shape than it was during the last quarter of 1947 although some large producers have not been able to level off contract requirements to date.

Case-hardening Mixture—Finding a steady outlet at 9¾c. per pound for 30 percent granular slabs delivered and at 8¾c. per pound works. Stocks sufficient to allow prompt shipments.

Chlorine—A slight backup of stocks at some producing plants as a result of a rather spotty demand during January has temporarily eased the supply situation. It is expected that demand will increase this month and tighten conditions as there is no indication at the present time of any permanent relaxation in the consuming inquiry.

Copper Chloride—Priced higher at 18¼c. per pound for regular crystals, 21¾c. per pound for dry crystals and at 27c. per pound for the anhydrous grade for prompt shipment from works. The revision is the result of increased producing costs, mainly freights and labor.

Copper Cyanide—Sales are being made at higher prices. The market is quoted at 43c. per pound with demand steady and stocks available for prompt shipment.

Nickel Carbonate—Mounting producing costs have resulted in an advance in prices. Suppliers are naming 41c. per pound in barrels for this material an advance of 2c. per pound.

Nickel Chloride—Higher prices are being named for spot material. The market has responded to increased producing costs. Producers quote 21½c. per pound for barrels.

Nickel Sulphate—An advance of one cent per pound has been established in this market bringing the price for spot shipment to 15c. per pound for carlots. This is the first advance since December, 1946. Meanwhile producers have been absorbing the constant increase manufacturing costs in labor and freight rates.

Potash Caustic—Supply situation has continued tight with producers shipping regularly to contract consumers but not eager to consider new business where prompt delivery is essential. The dry forms are in shorter supply than the liquid grade, tankcars being in a more favorable position than liquid in drums.

Potassium Carbonate—Active demand, principally from the glass industry, is absorbing current production and keeping buying conditions tight. Inquiry has started to reach the market from the fertilizer trade as a result of the stringent supply situation in cottonseed-hull ash. Tobacco planters have experienced difficulty in securing enough of the latter material and also potassium sulphate to meet their requirements during the past few years.

Potassium Chlorate—Market position is working into better shape. Production has made progress in catching up with contract schedules and some of the largest producers have reduced the differential to two weeks. Some March shipments are now available.

Potassium Perchlorate—Steady shipments are gradually bringing market conditions into better balance. Shipments for March were available in some supply sources at current prices.

Soda Ash—Fundamental conditions have uncovered no significant change since the turn of the year. On the surface, dense ash appears to be in a little better shape in as much as when full allocations have not been called for, the slack has been passed on to increase the allocation to others. The urgent pressure for shipments is not as great as a year ago and it is stated that the consumer waiting list is smaller. There is no open market as far as producers are concerned and no present suggestion there will be in the near future.

Soda Caustic—Supply situation has remained tight with some producers reporting more pressure for shipments. Allocations in most instances are being taken in full. The dry forms continue in shorter supply than the liquid but the entire market may

For Late Market Developments, See Page 4

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Market Trends

Prices Advanced

Butyric acid, 2c. per lb.
Copper chloride, ½c. per lb.
Copper cyanide, 2½c. per lb.
Nickel carbonate, 2c. per lb.
Nickel chloride, 1½c. per lb.
Nickel sulphate, 1c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

General Chemicals

Last week.	Prev. week.	Last month.	Last year.
204.1	204.1	203.1	194.5

Acids

Last week.	Prev. week.	Last month.	Last year.
119.7	119.7	119.7	119.1

(For Current Prices see Page 9)

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be described as tight with demand exceeding output.

Sodium Chlorate — Exceedingly heavy bookings of this chemical for shipment over March and April have been entered and a strong industrial and agricultural demand continues to prevail. The sold ahead condition of output has kept buying conditions tight for prompt shipment and former prices are firmly sustained.

Sodium Phosphoaluminate—Carlots of this material are available at $7 per 100 pounds in paper bags. Lots of 5 tons are priced at $7.50 per 100 pounds and smaller quantities at $8 per 100 pounds, f.o.b. the works. Paper mills have been the principal buyers, although considerable interest has been noted for boiler feed water treatment both external and internal.

Sodium Sulphide — Broadening of industrial demand has exceeded available supplies and production has been under pressure for several months. The increased inquiry has not inspired expansion in output and buying conditions have continued exceedingly tight and at present show no indication of nearby easement.

Zinc Sulphate—Consuming demand has improved during the past two weeks. This probably represented the purchasing of yearly contracts by large consumers. It is stated that about 50 percent of the business placed was for the account of rayon mills with most of the balance taken by the glue manufacturers and by those who use this material in agriculture. The late advance in the metal and the increase in freight rates have created a strong background to the sulphate market. It is expected that the freight allowance may be discontinued sometime in the near future as the constant mounting of transportation has placed a heavy burden on producers. The course of the basic metal may also have an important bearing on the shaping of future sulphate prices.

Acids

Acetic—Production of synthetic acid in November amounted to 28,027,807 pounds, compared with 27,302,164 pounds in the preceding month. The amount of recovered acid was higher than for any previous month in 1947. The total registered 133,448,552 pounds, against 128,529,127 pounds in October. Output of natural from direct process from wood and acetic acid distilled from lime acetate was 2,410,848 pounds in November, compared with 2,257,951 pounds in October.

Butyric—Higher prices are effective for this acid. Drums in carlots 99 percent are quoted at 34c. per pound and less than carlots at 35c. Tankcars are priced at 33c. per pound, all prices are f.o.b. the works. Stocks are not flush, but consuming requirements are being covered promptly. Buying interest for solvent uses in the dyestuff, fats and oils and resin industries is said to be satisfactory.

Chromic — Continued short stocks have kept buying conditions tight. Production has been kept down by the stringent conditions prevailing in sodium bichromate. Demand for plating requirements is active

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and increasing, and suppliers are under pressure for shipments. Meanwhile, an active export inquiry remains unsatisfied.

Naphthenic—Former prices remain effective in producing quarters. Demand from the paint and other consuming industries is holding steady, with barely enough stocks to meet all requirements in full.

Oxalic—Regular contract consumers are receiving shipments of this acid, although the movement is said to be from 30 to 60 days behind contract schedules. Demand is active, with producers not in a position to consider new business at the present time.

Sulphuric—Maintenance of heavy demand for industry and agriculture is absorbing current production, and stocks, while in fair balance, have leaned toward the tight side in this area. Tankcar shipments are more difficult to secure than smaller quantities.

Non-Ferrous Metals

Copper—Aside from heavy bookings for March delivery, there were no new developments in the copper market last week. Most of the stock available for next month is said to be under contract. Export trade was reported quiet, with the price steady at 21¾c. per pound f.a.s. The copper scrap market was quiet and a shade easier.

Lead—Supply situation continues tight and it is not expected that stocks available for March will show any expansion over those for the current month. Consumers have most of the supply for February now under contract at previous price levels.

Platinum — Higher prices have been named for this metal. Refiners are quoting $69 an ounce for large lots and $72 an ounce for retail quantities. The revision represents an advance of $3 per ounce. Consuming demand has shown no unusual activity but spot stocks have declined, mostly through reduced importations from Russia.

Quicksilver—The market continued easy in undertone and dull as to demand. Some fairly substantial lots that arrived recently from Europe were reported to be in weak hands and quantity buyers would have little difficulty in placing orders at $77 per flask. It was suggested that that figure was also subject to shading. Smaller lots ranged to $79. It was pointed out that the quicksilver market at present prices was very low, especially when the reduced purchasing power of the dollar was taken into consideration. There were those who believed that an upward movement in prices was inevitable.

San Francisco, Feb. 5.—The quicksilver market was slow with supplies off. Prices were reduced. Metal was quoted between $77 and $78 per flask, f.o.b. this city.

Silver—No new developments were uncovered last week. The market position is steady with demand and supply in balance. The official closing price on the New York market for silver bullion was 74⅝c. per ounce.

Silver Bullion Price Range

	Per ounce—New York	Per ounce—London
High	Mar. 6, 1947—80¼c.	Jan. 2, 1947—35½d.
Low	June 20, 1947—50¾c.	June 20, 1947—32d.

Tin—Press advices state the Ministry of Supply has announced that the United Kingdom tin ore stocks decreased from 6,792 tons on January 1, 1947, to 6,357 tons on December 31 of the same year. At the end of the year tin metal stocks were estimated at 2,778 tons in the hands of consumers and 6,188 tons in possession of the Ministry. This was 158 tons less than the stocks available on January 1, 1947. During the year, the Ministry said 2,326 tons of tin metal were delivered to United Kingdom consumers and 125 tons for export.

Advices from the Hague (Aneta) state that the International Tin Study Group has estimated 1947 world production at 113,000 tons and consumption at 131,600 tons. The difference was acounted for by reduction of stocks and consumption of certain stocks found in the Far East at the end of the war. The Group's first statistical bulletin gave November production in Malaya as 40,000 tons annually and Netherland Indies output as 21,000. Bolivia was exporting at an annual rate of 32,000, below the wartime level, but above prewar.

Zinc—Preliminary estimates of production by the Bureau of Mines for the state of Washington show a total mine output of 27,266,000 pounds, compared with 22,658,000 pounds in the preceding year. Last year registered the highest figure for any full peacetime year and has been surpassed only in 1941-1942. Nevada mine production of zinc was estimated at 17,780 tons, against 22,659 tons in 1946. All of the zinc was recovered from concentrates.

Chemicals and allied products exported from the United Kingdom during November, 1947, were valued at £5,410,000, compared with £6,210,000 exported in October.

ACS-Sponsored Foreign Chemists Studying in U.S.

The first two foreign chemists selected for advanced study in the United States on grants provided through the American Chemical Society to the United Nations Educational, Scientific, and Cultural Organization have arrived in this country and begun work. The scientists, both from Czechoslovakia, are Dr. Ivan Vavruch, who will study colloid chemistry at the Massachusetts Institute of Technology, and Dr. Milos Hudlicky, who will specialize in fluorine chemistry at Ohio State University.

According to terms of the grants, provided from a $25,000 fund donated to UNESCO by the society, they will remain in this country for six months before returning to Czechoslovakia to apply their increased knowledge toward postwar rehabilitation.

Additional grants have been extended to China, Greece, Poland, and the Netherlands. Chemists and chemical engineers from these countries are expected to arrive soon for six months' study in American colleges and universities. The fund is administered by the Institute of International Education, which cooperates with the society in the selection of candidates and the planning of their curricula.

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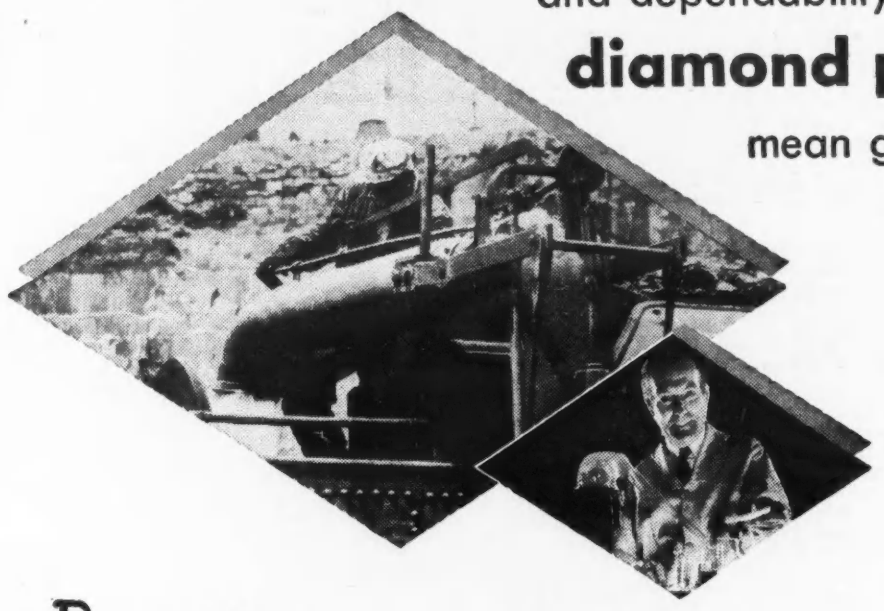

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General Tire & Rubber Assigns Six Chemists

General Tire & Rubber Company has named Dr. G. H. Stempel jr. assistant director of research and has appointed Dr. J. E. Ablard director of synthetic rubber research and development. The company also named Dr. G. S. Schaffel director of plastics research and development; Dr. H. L. Wunderly director of analytical research; Dr. H. T. Roy director of all activities of its Aerojet division in the Akron laboratories, and Kermit Weinstock acting head of physical testing and compounding research.

Dr. Stempel was associate professor of organic chemistry at Carnegie Institute of Technology for seventeen years before joining the rubber company in 1946. Dr. Ablard was the company's chief physical chemist before receiving his new appointment. Dr. Schaffel, who also joined the company in 1946, was formerly associated with the plastics division of Westinghouse Research laboratories.

Dr. Wunderly, who formerly taught at Notre Dame University, was director of the clinical laboratory of the children's hospital division of the Mellon Institute before joining General in 1946. Dr. Roy, who joined the company in September of last year, was formerly in charge of the chemical division of the Johnston & Jennings Company, Cleveland. Mr. Weinstock became a member of the company's staff after discharge from the Chemical Warfare Service in 1943.

Soviet Zone Chemicals

—Continued from page 5

other zones in 1946 in respect of both prewar levels and postwar objectives. The chemical plants in the Soviet zone suffered considerable war damage and after the occupation were subjected sporadically to severe dismantling operations.

During the last quarter of 1946, output in percentages of 1949 capacity to be retained under the Quadripartite Level of Industry Plan was reported as follows:—

Fertilizers—Synthetic ammonia, 62; calcium cyanamid, 15; superphosphate, 8.

Basic inorganic chemicals—Chlorine, 170; caustic soda, 170; soda ash, 94; calcium carbide, 17; sulphuric acid, 43.

Other—Miscellaneous chemicals, 36; pharmaceuticals, 35; dyestuffs, 42.

The report stated that the high production rates shown in some of the above items indicate that the 1946 capacities for these groups retained in the Soviet zone were still substantially higher than those to be retained under the Quadripartite Level of Industry Plan.

Following is production data taken from the report showing that output of selected products in the Soviet zone in 1946, as compared with 1938:—

	1946	1938
Aluminum, tons	17,500	13,400
Ammonia, synthetic, tons	73,900	147,000
Chemicals, basic[1]	35,200,000	68,500,000
miscellaneous[1]	137,000,000	314,000,000
Copper, refined, tons	18,500	50,000
Dyestuffs[1]	5,400,000	17,900,000
Fuels, synthetic, tons	231,000	500,000
Lead, refined, tons	6,000	10,600
Nitrogen fertilizers, tons (N_2)	79,400	[2]
Non-ferrous metals, rolled, tons	39,800	81,200
Pharmaceuticals[1]	53,000,000	80,700,000
Phosphates, tons (P_2O_5)	8,900	[2]
Potash, tons (K_2O)	658,500	[2]

[1] Reichmarks value.
[2] Output and capacity not limited.

G.E. Chemical Department Names Frackleton, Westhead

General Electric Company's chemical department, Pittsfield, Mass., has appointed William B. Frackleton district sales manager of its central district, and has named Andrew Westhead district sales manager of its New England district.

Mr. Frackleton, who will make his headquarters at 840 South Canal street, Chicago, has been associated with the company since 1928. Mr. Westhead, who was formerly in charge of the department's Springfield, Mass., sales office, will make his new headquarters at 140 Federal street, Boston. He has been with the company's plastics division since 1940.

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Du Pont Advances Harris

—Continued from page 5

ization in 1917 and served successively as a buyer in the purchasing department and

Ernest H. Hawkins

division purchasing agent for the equipment, chemical and New York divisions. He was made purchasing agent of the company in 1930, and in 1945 was appointed director of purchases.

Prior to becoming associated with du Pont, he worked for the Allis Chalmers Manufacturing Company, Milwaukee, and engaged in sales engineering projects in New York and Philadelphia. He is co-editor of the "Handbook of Purchasing Policies and Procedure," and in 1945 was awarded the George Arents Medal by Syracuse University for excellence in commerce and industry.

Mr. Harris joined the du Pont organization in 1915 as a buyer and in 1925 became a division purchasing agent, a post he held until he became purchasing agent for the company in 1945. He has been a recipient of the Shipman Medal, awarded for outstanding achievement by the National Association of Purchasing Agents, and served for ten years on the coal classification committee sponsored by the American Society for Testing Materials.

Mr. Garrett started with the company as a laborer at its Deepwater Point, N. J., plant in 1917. He was subsequently made a chemical operator and shift supervisor, and in 1918 was transferred to the purchasing department as an assistant buyer. Four years later he became an assistant division purchasing agent and in 1931 was named division purchasing agent.

Mr. Bailey joined the New York office of the company in 1925 as an office assistant in the purchasing department and shortly thereafter was made an assistant division purchasing agent. During the war he was manager of the priorities section of the purchasing department.

Nitrogen Export Control

—Continued from page 3

three times our exports, the supply of nitrogen fertilizer in the United States for the current year is now expected to fall short of agricultural requirements by about 60,000 tons, it was stated, all of which will be in the form of nitrogen solids.

"There is little prospect that the deficit of nitrogen in this country, or the rest of the world, will be reduced in the 1948-49 fertilizer year," the report added. "In fact, the world shortage is expected to be substantially greater in 1948-49. Increased requirements result chiefly from the establishment of high food production goals, both here and abroad, and the reclamation of large agricultural areas which were devastated or inundated during the war. The need for nitrogenous fertilizer materials in these areas, which have not been cultivated for several years, is abnormally high.

"Two factors have a direct bearing on the amount of nitrogen available for agricultural use in this country:—

"1. The use of nitrogen for industrial purposes has been rapidly increasing. To the extent that industrial consumption of nitrogen was limited, more nitrogen fertilizer would be available for use on the farms.

"2. In recent months, some facilities previously employed in the production of nitrogen have been diverted to the more profitable manufacture of methanol, a chemical used an an antifreeze and to make plastics. Nitrogen production at the rate of more than 30,000 tons a year has been lost in this way since last July. These facilities could be readily returned to the output of nitrogen, with virtually no delay and at very little cost."

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Johns Hopkins Univ. Gets Research Fund

Johns Hopkins University, Baltimore, has been granted a $500,000 endowment to be used for the study of the physiological effects of the so-called "trace elements." The grant, to be known as the McCollum-Pratt fund in honor of E. V. McCollum and John L. Pratt, who made the gift, will be used for studying the function of copper, boron, cobalt, manganese and other minerals in living organisms.

New Jersey Chemists Meet in Newark Tonight

The New Jersey chapter of the American Institute of Chemists will hold a joint meeting with the North Jersey Section of the American Chemical Society and the Technical Societies Council of New Jersey at 9 o'clock tonight at the Public Service Auditorium, Newark, N. J. Featured speaker will be Dr. Frank B. Jewett, past president of both the Bell Telephone Laboratories and the National Academy of Sciences, who will discuss "Research and Government."

Obituaries

M. Vincent O'Shea, administrative vice-president of Merck & Co., manufacturing chemist, Rahway, N. J., died February 5 in Columbia Presbyterian Medical Center, New

M. Vincent O'Shea

York, after a brief illness. He was forty-nine years old.

Mr. O'Shea joined Merck & Co. as administrative vice-president last September, after having served for a period as president of Rosemarie de Paris, Inc., New York. During the war he served as a lieutenant colonel with the Signal Corps, serving as acting director of procurement and having charge of plants having labor and production difficulties.

He was at one time an instructor in chemistry at Harvard University, and from 1929 to 1939 was executive vice-president of the O'Sullivan Rubber Company. He had also held various administrative and executive positions with other firms in Cleveland, New York, Wisconsin, Illinois and the Pacific states.

Richard Airey

Richard Airey, founder and former president of the Asiatic Petroleum Corporation, died February 1 at his home in Billinghurst, Sussex, England. He was seventy-nine years old. He had retired from active business and returned to England in 1935.

Mr. Airey came to this country in 1916 as a representative of the Royal Dutch Shell Oil Company, and a year later set up Asiatic Petroleum as an associate of Shell. Before his retirement he had become president of the Caribbean Petroleum Company and the Colon Oil Corporation and a director of Shell Union Oil Corporation and Canadian Eagle Oil Corporation.

Robert J. Dunham

Robert J. Dunham, former vice-president of Armour & Co., Chicago, died February 2 at the Arizona Biltmore hotel, Phoenix, Ariz., where he had been living since last November. He was seventy-one years old.

Mr. Dunham joined Armour & Co. in 1907 and was appointed its assistant treasurer in 1909. Shortly thereafter he was made vice-president of the company. He resigned from the company in 1920. He had also served as president of the Chicago Park District and as a director of several banks, railroads and other enterprises.

Edward G. Gibson

Edward G. Gibson, Pacific Coast manager for H. Kohnstamm & Co., colors manufacturer, New York, died recently in Los Angeles. Mr. Gibson had opened the company's Los Angeles office in 1933 and was in charge of the California, Oregon and Washington territories.

Thomas W. Lamont

Thomas W. Lamont, chairman of the board of J. P. Morgan & Co. and one-time officer of Lamont, Corliss & Co., drug and cosmetics firm, New York, died February 2 at his home in Boca Granda, Fla. He was seventy-seven years old.

Dr. W. Lipschitz-Lindley

Dr. Werner Lipschitz-Lindley, retired research pharmacologist for the Lederle Laboratories of the American Cyanamid Company, died February 1 at his home in Pearl River, N. Y. He was fifty-five years old.

A native of Germany, Dr. Lipschitz-Lindley was head of the department of pharmacology at the University of Frankfurt from 1923 until 1933. After leaving Germany, he was professor and director of the Institute of Biochemistry at the University of Istanbul, Turkey, for five years.

He came to the United States in 1938 and

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was employed by the American Cyanamid Company from 1940 to 1947. He was the author of numerous papers on pharmacological research, and is credited with the discovery in recent years of a new group of diuretics. He was a past president of the German Pharmacological Society and was a member of the American Pharmacological Society and the New York Academy of Science.

Harry Noonan

Harry Noonan, founder and president for more than thirty years of the Drug Products Company, Long Island City, N. Y., died February 1 at his home in Phoenix, Ariz. He was seventy years old.

Mr. Noonan first entered the pharmaceutical business as a messenger for the Norwich Pharmacal Company when he was fifteen years old. After seven years with that company he was made manager of its New York office, and resigned that position thirteen years later. In 1913 he organized the Drug Products Company in New York, and built up its business to the point where it acquired its own building in Long Island City in 1920.

Mr. Noonan retired from the Drug Products Company on October 15, 1943, and took up permanent residence in Arizona. He had served as president of the American Pharmaceutical Manufacturers Association and as vice-president and member of the executive committee of the National Drug Trade Conference.

Miss Clara A. Bliss, professor emeritus of chemistry at Wells College, Aurora, N. Y., died February 1 in Anna Jaques hospital, Newburyport, Mass.

Mrs. Lula R. Childers, president of the Childers Electric & Paint Company, Louisville, Ky., died recently at her home in that city. Mrs. Childers was the widow of the late Christopher C. Childers who founded the firm about forty years ago.

Stephen B. Cornell, chairman of the board of directors of Canadian Kodak Company, died February 1 in Toronto, Canada. He was seventy-five years old.

Julian W. Harlan, former Chicago division credit manager for Armour Fertilizer Works, Atlanta, Ga., died recently in Atlanta. He had been associated with the company for thirty years prior to his retirement in 1932.

Dr. August Klein, vice-president and engineering manager of the Stone & Webster Engineering Corporation, who supervised the engineering design of the electromagnetic uranium separation plant at Oak Ridge, Tenn., died February 10 while on vacation in Jamaica, B. W. I. He was sixty years old.

Clyde G. Morrill, executive secretary of the Independent Oil Men's Association of New England, died February 5 of a heart attack in Boston. He was fifty-eight years old. Mr. Morrill was recently appointed by Secretary of the Interior J. A. Krug to serve as a New England representative on the National Petroleum Council, and he had served on the National Petroleum Industry Council during the war.

H. M. Mosher, chairman of the board of Signal Oil & Gas Company, Los Angeles, died recently in that city. He was eighty-four years old. A native of New York, Mr. Mosher had gone to California fifty years ago and became associated with the Western Union Oil Company.

Mrs. Frank G. Perkins, director and vice-president of the Perkins Glue Company, Lansdale, Pa., died recently in Orlando, Fla. She was seventy-eight years old. Mrs. Perkins, who was the widow of the founder of the Perkins Glue Company, was its sales manager for many years.

Mrs. Hazel B. Sanger, assistant secretary and comptroller of the MacMillan Petroleum Corporation, Los Angeles, died recently. She was forty-five years old.

Trade Briefs

Diamond Match Company has elected Robert S. King to its board of directors.

Arthur D. Little, Inc., Cambridge, Mass., has elected Everett Morse to its board of directors.

Chemical products imported into Costa Rica during 1946 were valued at $623,606. The United States was the principal supplier.

Soda ash and caustic soda were among the four commodities showing an increase over planned production in Rumania in September, 1947.

Caustic soda production in Japan during the third quarter of 1947 totaled 14,319 metric tons, compared with 8,335 tons in the corresponding period of 1946. Soda ash output in the same quarter was 11,665 tons.

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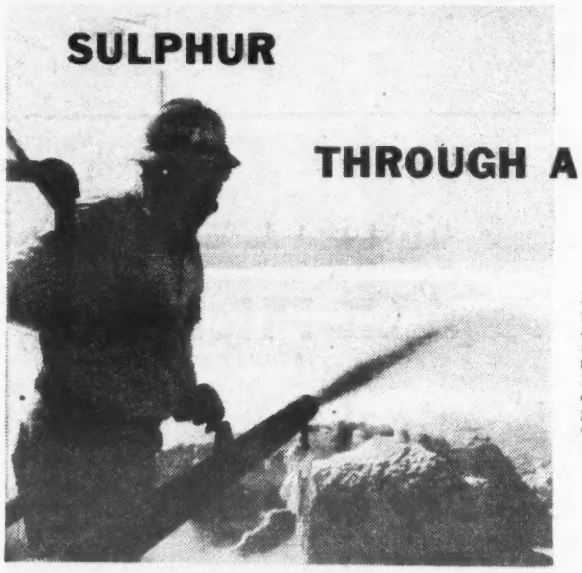

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Synthetic Detergents Output In Germany Described

A comparative evaluation of certain synthetic detergents and descriptions of research work and plant processes for the production of some synthetic detergents are contained in a report now on sale by the Office of Technical Services. The report also contains an alphabetical trade-name list of all synthetic detergents and most textile auxiliaries made in Germany and gives the composition of the detergents.

The following classes of detergents are discussed in the report and the opinions of the German chemists, based mainly on laboratory tests but also on practical experience, are presented: alkyl sulphates; "Igepons"; "Medialans" polyethylene oxide types; alkyl sulphonates; alkylaryl sulphonates, and "Lamepons."

Mimeographed copies of the 120 page report (PB-81819, "Synthetic Detergents and Related Surface Active Agents in Germany") sell for $3.00. Orders should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Pennsalt Names Four In Agricultural Div.

Pennsylvania Salt Manufacturing Company, Philadelphia, has appointed Kenneth K. Krausche district sales manager of its agricultural chemicals division for the Middle Western states and has added three new district field representatives to its staff. The new field representatives are:—Arthur W. Bixby, for the North Eastern states; John W. Kennady, North Central states, and J. Drake Watson, North Carolina and South Carolina.

Mr. Krausche, who has been a field representative in the Middle Western district for several years, will establish his headquarters at the company's Chicago sales office. Mr. Bixby has been a salesman in the company's heavy chemicals division since 1938. He will make his headquarters at the agricultural chemical division's Philadelphia sales office.

Mr. Kennady, who was formerly with the Department of Agriculture, will establish headquarters at Kansas City, Kans. Mr. Watson, who was formerly with the Pee Dee Experimental Station of the Department of Agriculture at Florence, S. C., will continue to make his headquarters at Florence.

Commercial Solvents Shifts D.B. Curll

Expansion and reorganization of the sales department's agricultural division to coordinate the sale of all products entering the agricultural field has been announced by Commercial Solvents Corporation, New York. Daniel B. Curll, Jr., formerly manager of the company's Dixie chemical division, has been appointed manager of the enlarged division. Dr. Hugh R. Stiles becomes technical director, and Dr. James G. Sanders continues as entomologist.

Hydroponic Chemical Co. Moves to New Ohio Plant

Hydroponic Chemical Company has completed its new plant at Copley, Ohio, for the production of its "Hyponex" plant food and insecticides. The company has moved its general offices to the Copley location and will handle all business from that address in the future.

Nitrogen Materials

—*Continued from page 3*

tons, which compares with actual production in the 1946-47 year of 159,850 tons.

The combined production of all solid nitrogen materials and solutions is expected to be up considerably over that of 1946-47. The figures are 702,694 tons for 1947-48 against 617,871 tons for 1946-47. Adding to these figures the expected imports of nitrogen products during the year raises the total supply of nitrogen available for agriculture in 1947-48 to 891,092 tons, an increase of 86,031 tons.

The following table prepared by OMD shows, in short tons of nitrogen, United States nitrogenous fertilizer materials production in the second quarter, the estimated 1947-48 output, and actual production in 1946-47:—

	1947-48 Half year	1947-48 Estimated year	1946-47
Solid materials—			
Sulphate of ammonia	110,115	220,250	193,686
Ammonium nitrate	66,788	133,576	159,850
Other solids	22,929	45,858	41,333
Ammonium phosphate	10,722	21,444	10,453
Organic	15,000	30,000	30,000
Total solids	225,554	471,108	58,322
Solutions	115,793	231,586	159,549
Total solids and solutions	351,347	702,694	617,871

Trade Briefs

Pyrethrum crop in Tanganyika for the year ending December 31, 1947, is estimated to total 500 metric tons.

Potash production in France dropped to 63,455 metric tons in November, 1947, from 66,860 tons in October.

Superphosphate to be supplied to Eire by the British government in 1947-48 will amount to 15,000 tons. This amount is in addition to approximately 25,000 tons of sulphate of ammonia allocated to Eire by the International Emergency Food Council.

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Agricultural Chemicals

Stocks of all the basic fertilizer chemicals continue tight with demand active. No price change could be noted in coke-oven ammonium sulphate. There is still a range for this chemical with most sellers firm at the maximum price. Potash producers are on even beam with contract schedules but are experiencing a constant demand for increased shipments from mixers. French potash is arriving on schedule time and the entire allocation will probably be here by April. There are no surplus stocks of superphosphate in the local area. Sales are said to have increased in the South under improved weather conditions. It is stated that the amount of superphosphate that will be used during the remainder of the season will be governed by the amount of potash and nitrogen made available to mixers. If these essential materials are short of requirements, it is said there will be a backup of superphosphate stocks at mixing plants. There is more demand than supplies of ammonium nitrate, cyanamide, sodium nitrate and nitrate solutions. Urea fertilizer compound has been adjusted to freight prepaid destinations. Relaxation of feed demand has resulted in lower prices for dried blood and tankage. Prices for crude sulphur for export have been advanced at Gulf ports.

Unfavorable weather conditions have slowed down buying interest in insecticide materials. Recent declines in the prices of DDT, pyrethrum and sabadilla have attracted attention without any substantial increase in sales. DDT stocks are free at present and competition is keeping prices somewhat flexible. Suppliers are urging the purchase of rotenone powders because it is asserted that importations of rotenone roots have been below normal and the harvesting of rotenone in producing countries has been at a low ebb. It is stated that actual stocks of rotenone for 1948 are practically limited to supplies now held in this country.

Nitrogenates

Ammonium Sulphate—Heavy demand has continued to feature this market. The price range for coke-oven material is $38 to $40 per ton bulk at the works with most of the business being placed at the outside figure.

Bone Meal—Production of both raw and steamed varieties is said to be mostly under contract to feed and fertilizer interests for the month of February. The market presents a tight appearance with prices firm but unchanged.

Dried Blood—Relaxation of heavy demand from the feed trade resulted in the establishment of lower prices. Sales were reported in New York at $11.50 per unit of ammonia and at $11 in Chicago.

Fish Meal—Stocks of menhaden meal are said to be getting smaller with each successive week. Inquiry from the feed trade has continued active with the price position exceedingly firm. Sardine meal on the Pacific coast is priced at $188.50 per ton for 65 percent.

Hoof Meal—Buying interest for fertilizer use has turned more active. Production of this material is limited and sellers are asking $10 per unit of ammonia in Chicago.

Sodium Nitrate—Market conditions have not changed since the turn of the month. Demand is exceeding supply and there is no indication of easement from the market's tight position.

Tankage—Priced lower with demand for feeding use less active. Material was available last week both here and in Chicago at $11 per unit of ammonia.

Urea Fertilizer Compound—Carlots of 30 tons, minimum are now priced at $81 per ton bulk and $85 per ton in paper bags f.o.b. Belle, West Virginia, with rail freight allowed to destinations in North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas and East. In carlots of 40 tons, the price is $90 per ton bulk and $94 in paper bags f.o.b. Belle, West Virginia, freight allowed to Montana, Wyoming, Colorado, New Mexico and West.

Phosphates

Phosphate Rock—Production is finding a ready outlet for domestic use under a demand broad enough to exceed current output and hold buying conditions definitely tight. Acidulators are taking all the rock available and some are endeavoring to increase commitments.

Superphosphate—Stocks of normal are no freer in this area and it is stated that buying has increased in the South under more favorable weather conditions. The tight supply condition of nitrogen and potash is causing some difficulty at mixing plants and it is stated that if any surplus of superphosphate develops later in the year it will be caused by shortages in other products essential to mixing operations.

Market Trends

Prices Advanced

Sulphur, crude, for export, $2 per long ton.

Prices Reduced

DDT, 6½c. per lb.
Dried blood, 50c. per unit of ammonia.
Tankage, 50c. per unit of ammonia.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
74.5	74.5	72.5	72.3

(For Current Prices see Page 9)

Potashes

Producers are making shipments in line with contract schedules and are facing an active inquiry for increased commitments from mixers. There is no doubt that all material produced will find a ready market. Importations of French potash are arriving on time. About 15,000 tons will arrive here between February and the middle of April and all has been sold. It is stated 2,800 tons are now being loaded for shipment to Baltimore, and another 2,800 tons will be shipped by the end of February to Norfolk. Subsequent shipments will be made to Baltimore, Norfolk and Savannah.

Los Angeles Fertilizer Market

Los Angeles.—Prices of ammonia nitrate and phosphate were up here, but ammonia sulphate quotations dropped. Supplies are fairly good. However, demand was only fair. Ruling prices are:—Ammonium nitrate, $71.04 per ton f.o.b. this city. Ammonium Phosphate, $65 per ton for 16/20 grade f.o.b. Los Angeles, and $83 per ton for 11/48 grade f.o.b. this city. Ammonium sulphate, $50 per ton f.o.b. this city. Blood meal, $8.50 to $9 per unit of ammonia at source. Bone meal, $60 to $62 per ton for steamed 1x30 meal. Fish meal, $188.50 per ton f.o.b. Los Angeles dock for 65 percent California sardine meal. Nitrate of sodium, $49.50 per ton in 100-pound bags. $5 off for bulk. Potassium muriate, 53½c. per unit, ex-vessel basis, less 8c. per unit, f.o.b. Trona basis. Bags additional. Potassium sulphate, 95 to 98 percent K_2SO_4 in bulk 74c. per unit, f.o.b. Trona. Superphosphate, $20.20 f.o.b. this city, bulk. Tankage, dry rendered, ground 50 percent protein $6.25 to $7.25 per unit of ammonia at production plant, plus 10c. per unit of b.p.l.

Insecticides

Benzene Hexachloride — November recorded the highest output for any of the eleven months in 1947, according to the Chemical Division of the Tariff Commission. Output registered 1,187,583 pounds, compared with 1,052,635 pounds in October. The gamma isomer content of benzine hexachloride was 151,663 pounds in November against 133,001 pounds in the preceding month.

Calcium Arsenate—Prices are firm but unchanged for this material. Bureau of the Census places calcium arsenate production for November at 2,709,000 pounds of commercial, compared with 2,272,000 pounds in the preceding month and 1,330,000 pounds in November, 1946.

Derris Root—Exports of derris root from Malaya in the 9-month period January-September, 1947, totaled 7,943 hundredweight, according to Malayan statistics. Imports of this material, almost entirely from Sumatra, amounted to 4,086 hundredweight.

DDT—Liberal stocks, competitive influences and slow demand have resulted in the establishment of lower prices in this market. Drums in carlots are priced at 31c. per pound and smaller quantities 33½c. to 36½c. per pound works, depending upon the size of order. Lump material is available at 2c. per pound below these prices.

Sulphur and Pyrites

Mine shipments of native sulphur in November were placed at 373,394 tons by the Bureau of Mines, compared with 414,278 tons in the preceding month and 504,257 tons in November, 1946. Apparent sales were 427,806 tons in November, against 417,445 tons in October and 464,344 tons in November last year. Prices for crude sulphur for export have been advanced $2.00 per long ton or $22.00 at Gulf ports. The pyrites market continued steady with shipments confined chiefly to contract accounts.

For Late Market Developments, See Page 4

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Coaltar Chemicals

The coaltar chemical market remained fairly stable last week, with price rises effected February first on anilin, betanaphthol and paracresol in full force. Other intermediates were holding at their old levels of last year, or those established early in January. Basic products were unchanged in price levels.

Benzol supplies were slightly under the requirements of overall demand, but in no sense critical. Increased styrene production over recent months coupled with wider manufacturer of maleic anhydride and other benzene derived chemicals exerted considerable pressure of demand on the nitration grades. Production for the first eleven months of 1947 amounted to a volume in excess of 164,000,000 gallons. Coaltar remained in critical supply while creosote was in reasonable balance with demand. Indications were that the 1947 production hit a peacetime high, with 147,312,136 gallons for the first eleven months of the year. During the past year, imports of creosote held up well and added to the good domestic production presented a favorable picture of supply.

Cresols were under continued heavy demand from the manufacturers of synthetic resins, plasticizers, and disinfectants. All grades held firm in price, and supplies were very considerably under the actual demand. Cresylic acid held unchanged from the price levels established at the new year, and the low volume of imports was of little relief to the excess demand for the volume of material produced domestically. Refined naphthalene was reported to still be available on reasonably prompt shipment, while demand was on the upswing and expected to continue in this trend at least through March. Crude naphthalenes were exceedingly critical. Production of crude material during the first eleven months of 1947 amounted to 290,423,168 pounds. The feeling was expressed in some quarters that the supply picture was currently more bleak than at any time during the war. This was so, despite the fact that more naphthalene was produced than heretofore, because of the tremendously increased overall demand for naphthalene derived chemicals, particularly phthalic anhydride.

Phenols of all types, synthetic, natural, and USP, were in short supply while the industry continued to operate at full plant capacity. Prices held firm. Pyridine was also short. Supplies of toluol were short, making a tight market in which producers were hard pressed to take care of the established customers while at the same time they were swamped with orders from new accounts which they were unable to service. Xylol, likewise, was tight.

Steel operations last week were set at 94 percent of ingot capacity, according to the American Iron and Steel Institute, which was equivalent to the production of 1,694,300 net tons of ingots and castings. The rate for the previous week was 95.2 percent equivalent to 1,716,000 tons compared with 1,708,600 tons one month ago and 1,633,700 tons one year ago.

Basic Products

Benzol—January's slight advance in the price of benzol was reflected in the advancing price of anilin and maleic anhydride, but was virtually unnoticed in other benzene derivatives. Demand continued quite strong from all quarters especially for the nitration grade, and supplies were reported as only slightly short of balance with demand. The feeling was expressed in many quarters that for the next few months the supply situation would not become critical and would be maintained largely in its present status. No further price changes were contemplated. Demand for solvent use was expected to advance somewhat if other aromatic solvents continued in their current tight position. Styrene production in recent months has been on the increase following a lull during the summer months, and demand for benzol from this source has been accordingly heavier. However, the effect on the overall benzol picture was relatively slight.

According to the Tariff Commission and the Bureau of Mines, production of motor grade benzol during November amounted to 1,030,437 gallons, bringing the eleven-month total for coke-oven operators to 14,924,138 gallons. Coke-oven operators also produced during November some 12,396,706 gallons of other grades of benzol, setting the total for eleven months of 1947 at 129,338,717 gallons. Meanwhile, tar distillers produced during the eleven months some 19,637,705 gallons of benzol. Hence, for the first eleven months of 1947, benzol production from all sources exceeded 164,000,000 gallons, indicating that production for the year was somewhat above the estimated 170,000,000 gallons.

Coaltar—This market was unchanged from its previous tight supply position with respect to the burden of heavy demand and the reduction of normal supplies resulting from fuel oil shortages necessitating the burning of coaltar as fuel in abnormal amounts. Prices were being maintained at competitive heat unit levels with fuel oils.

Creosote—September imports of creosote were reported by the foreign trade division of the Bureau of Census as 2,532,559 gallons. Domestic production, while up to prewar levels, was insufficient to meet the demands of the wood preserving industry. However, the generally favorable level of imports over recent months served to augment the domestic supply to a point where supplies were considered in many quarters as short but not critical. Prices held firm at their January levels, and further changes were not anticipated.

Tariff Commission reports indicate that total production of creosote by both tar distillers and coke-oven operators for the first eleven months of 1947 amounted to a total of 147,312,136 gallons. This figure is in the range of prewar production figures, and indicates that the total figures for the year were likely to be near a peak peacetime figure. Of this total eleven-month figure of 147,312,126 gallons, some 111,271,558 gallons were produced by tar distillers and some 36,040,578 gallons by coke-oven operators. The increased production of domestic material this past year was less than the increased demand from wood preservers, however.

Cresol—Pricewise the cresol market was firm and likely to remain so, while the supply situation contined acute. Demand contined at its full force from the synthetic resin and plasticizer industries. Domestic production lagged far behind demand, and low imports were of virtually no consequence in the market.

Ortho-meta-para cresol production, according to the Tariff Commission, fell off in November by some 165,523 pounds under the previous month. Total production of this grade for the first eleven months of the year amounted to 8,146,686 pounds. The meta-para grade showed an increase of production during November and for the month amounted to 659,266 pounds. This brought the total meta-para production for the eleven month period to 5,846,399 pounds.

Cresylic Acid—Cresylic acid imports over the past few weeks were in comparatively good amounts, aiding the generally short and critical supply situation. Domestic production was maintained at normal levels with prices holding firm while imported material was largely brought in by users and was not resold. The small amount bought for resale was being quoted at prices considerably in excess of the domestic material and did not reflect the true cresylic

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Anilin, 1c. per lb.
Betanaphthol, 1½c. per lb.
Paracresol, 4c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
147.3	146.1	140.3	131.7

(*For Current Prices see Page 9*)

Coke By-Products

Estimates of by-product cokeoven operations in the week ended January 24 indicate the following output of by-products from that source:—

Ammonia liquid NH_3	lbs.	1,200,529
Ammonia sulphate	lbs.	31,087,389
Benzol	gals.	3,917,516
Coaltar	gals.	14,[illegible]
Creosote oil	gals.	808,778
Naphthalene, crude	lbs.	1,020,847
Phenol	lbs.	227,469
Toluol	gals.	783,503
Xylol	gals.	176,920

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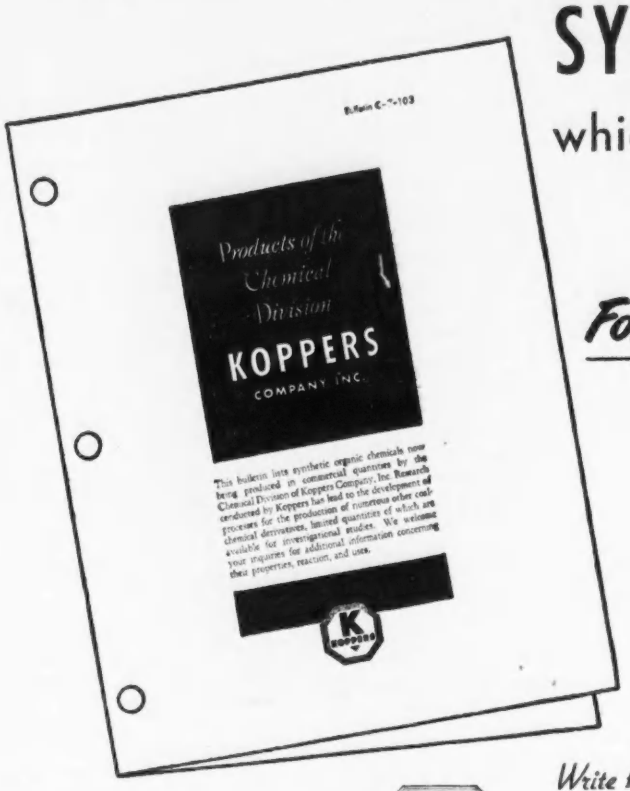

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acid market. Synthetic resin and plasticizer manufacturers were unable to eliminate the bottleneck of short cresylic supplies which has hampered their production schedules for months.

Tariff Commission reports indicated that total domestic production of cresylic acid from all sources for the first eleven months of 1947 amounted to 23,852,390 pounds of refined material. October and November production were on a par with each other, but were from ⅓ to ½ below the level of production for the previous months of the year. Some 839 drums of cresylic acid were imported last week.

Napthalene—Refined naphthalene demand was on the upswing last week, but supplies by the various producers were readily available for prompt shipment in most quarters. It was reported generally that the advance in prices effected as the new year had apparently had no adverse effect on demand from the mothproofing trade. Crude naphthalenes of all types were, on the other hand, quite critical and consumers were suffering from acute shortages all across the nation. In a desperate effort to obtain sufficient supplies for the ever increasing demand on the coaltar chemical industry for naphthalene derivatives, there was reported considerable trading of materials of one sort for another. The feeling was expressed in some quarters that in view of the widespread demand, the supply picture was worse now than during the war years. Prices which were advanced at the new year were an entirely negligible factor in the supply and demand relationship.

Total production of crude naphthalene melting at 79 degrees or below by both tar distillers and coke oven operators, according to the Tariff Commission and Bureau of Mines reports, amounted during the first eleven months of 1947 to 290,423,168 pounds. Of this total, some 203,682,435 pounds were produced by tar distillers, and 86,740,733 pounds by coke oven operators.

Tar distillers also produced refined naphthalene melting at 79 degrees or over, some 89,047,938 pounds during the same eleven month period. Production during November was on a par with September by tar distillers, but fell below the average for the previous months by some 2,000,000 pounds.

Phenol—The market on both synthetic and natural phenols remained tight, characteristic of the market over the past few months. No easement of the supply situation in the immediate future could be foreseen. The increased cost of these materials which were forced upward by the advancing costs of raw materials and labor were without effect on the pressure of demand from the synthetic resin, dyestuffs, and pharmaceutical industries. Prices held firm at levels established at the beginning of the new year. To some extent, the higher levels set on phenols were passed on to intermediate phenolic chemical compounds, but on most items this was not evident. Increasing costs of phenols and cresols were anticipated by most synthetic resin manufacturers who advanced the price levels of their pure and modified phenolic resins early in January or at the beginning of February.

Production of synthetic, natural, and USP phenol from all sources was reported by the Tariff Commission to have totaled for the first eleven months of 1947, some 243,315,855 pounds. November production was quite in line with the full capacity production rate of the industry maintained over the previous six months. These figures represent the totals reported by the coke-oven operators to the Bureau of Mines, and that reported by the distillers of purchased coaltar to the Tariff Commission, as well as synthetic and USP production. No figures were currently available as to the production of each type of material or type of industrial producer.

Pyridine—No change in the market on this item was reported with the pressure of demand for chem. al syntheses continuing at its currently high level, and supplies generally short. Prices were firm.

Crude pyridine production, on a dry basis, totaled for the eleven-month period of 1947 from all sources 623,171 gallons. Meanwhile, for the same period production of 122,606 gallons of refined pyridine were reported according to the Tariff Commission.

Toluol—This material was in heavy demand for both the industrial and nitration grades. Supplies were generally short by virtue of an increasing overall demand for the product and a somewhat curtailed production level at some sources. Bureau of Mines and Tariff Commission reports indicate that coke-oven operators produced 2,410,181 gallons of toluol during November, bringing their total production for the first eleven months of 1947 to 24,651,995 gallons. Meanwhile, production for tar distillers, as well as petroleum sources, totaled 33,853,244 gallons during the same period, bringing the total overall production for the eleven months to 58,505,239 gallons.

Xylol—The market for this item was essentially unchanged from the tight supply position reported the previous week. Demand on coaltar source material was great in view of the overall scarcity with cur-

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tailed production reported in some quarters. Prices remained stable in the range of 28c. to 30c. per gallon with most producers quoting at the lower range.

Production of xylol from all sources during the first eleven months of last year totaled 40,646,733 gallons. The Tariff Commission reported November production at 2,271,493 gallons, in line with previous months.

Intermediates

Anilin—Effective February 1, prices were advanced by major producers on anilin, following a previous rise by a large producer, of 1c. per pound. This brought the price in tankcars, freight allowed, to 14c. per pound with the usual differentials for carlot and less carlot drum shipments prevailing.

Betanaphthol—Also advanced by major producers was betanaphthol technical grade, to levels of 27½c. per pound in carlots and 29½c. in less than carlots. This represents a price advance of 1½c. on a carload basis. Supplies were critical due primarily to the naphthalene shortage.

Paracresol—Price advances were made on paracresol effective in February to a level of 45c. per pound on the low side of the range of quotations. Supplies were tight, and very little material was being produced. However, one chemical manufacturer expected to soon be in production with a plant to make paracresol synthetically.

Firestone Makes Changes In Official Family

Firestone Tire & Rubber Company has elected Harvey S. Firestone jr. chairman of the board and chief executive officer, and has named Lee R. Jackson president. The company has also elected John J. Shea vice-president in charge of finance; Harvey H. Hollinger, treasurer, and Joseph Thomas, general counsel and secretary.

Mr. Firestone was formerly president and chief executive officer, and Mr. Jackson was executive vice-president. John W. Thomas, who was formerly chairman of the board, will continue as honorary chairman. Mr. Hollinger was secretary of the company before being elected treasurer.

Rochow Joins Harvard Faculty

Eugene G. Rochow, former research chemist for the General Electric Company, has been appointed to the faculty staff of Harvard University.

Koppers Company to Sell Pittsburgh Office Building

Koppers Company, Pittsburgh, is planning to sell its thirty-three story office building in that city to the Equitable Life Assurance Society of the United States. The company said that it would take back the property on a long term lease after the transfer is consummated, about March 1. It was explained that the insurance company is purchasing the building as an investment and that the Koppers organization prefers to invest the money previously tied up in the property in its program for improving and modernizing its manufacturing facilities.

Steel Shipping Barrels Output Down in November

Production of steel shipping barrels, drums and pails during November decreased slightly, with the industry producing 2,063,834 heavy-type barrels and drums, and 719,878 light-type barrels and drums, and 4,534,914 steel packages, kegs and pails, according to a report by the Bureau of the Census. This compared with the production of 2,303,839 heavy-type barrels and drums, 832,030 light-type barrels and drums, and 5,081,788 steel packages, kegs and pails in October.

Trade Briefs

Dyes, colors, chemicals and drugs imported into Malaya during the third quarter of 1947 totaled $11,400,665.

Robert C. Winthrop jr., assistant export manager of G. R. Coleman & Co., New York, is currently touring Latin America making a market survey of the possibilities for chemical and dyestuff products.

Hagan Corporation, combustion and chemical engineering firm, Pittsburgh, opened a branch office in Denver, February 1, with W. C. Bennett as district manager. The new office is located at 2018 Blake street, Denver 2.

Coaltar dyes production in Belgium is currently limited to one firm, according to recent reports. Current output is estimated at 1,000 metric tons annually, and the firm plans to develop facilities for the production of the crudes and intermediates which are now being imported.

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Phthalodinitrile Process In Germany Described

OPD Washington Bureau

A simple process for the manufacture of phthalodinitrile, used in the manufacture of Heliogen blue B, is described in a report now on sale by the Office of Technical Services. The manufacture of Heliogen blue B is also described. The report contains processing details used in the manufacture of both chemicals at the I. G. Farbenindustrie plant at Ludwigshafen, based on the plant's records and interviews with two I. G. F. chemists-in-charge.

Mimegraphed copies of the sixteen page report (PB-85144, "Manufacture of Phthalodinitrile at the I. G. Farbenindustrie Plant at Ludwigshafen") sell for 50 cents. Orders should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Hargrave Awarded Certificate of Merit

OPD Washington Bureau

Thomas J. Hargrave, chairman of the Army-Navy Munitions Board, and president of the Eastman Kodak Company, Rochester, N. Y., and its subsidiary, Tennessee Eastman Corporation, has been awarded the President's Certificate of Merit. The award recognized Mr. Hargrave's "exceptionally meritorius conduct in the performance of outstanding services to his country throughout the emergency."

Dr. W. A. Adamson Retires From du Pont Dye Research

E. I. du Pont de Nemours & Co., Wilmington, has announced that Dr. William A. Adamson, a pioneer in dye research, retired on February 1 after thirty years with the company. Dr. Adamson's research activities have been largely in the fields of basic, alizarin and anthraquinone vat dyes, and he is accredited with contributing much to the early developments in these fields.

He joined the du Pont organization in 1917, and when the Newport Chemical Company became part of that organization he was transferred to Carrollville, Wis., where the work on anthraquinone colors was concentrated from 1932 to 1938. In 1938, he was transferred to the Jackson Laboratory and became a member of the laboratory's patent division.

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Textile and Leather Chemicals

Lower prices for potato starch was the feature of the sizing materials market last week. Offerings of cheaper starch for shipment from the Netherlands weakened prices and the domestic material was again reduced fractionally. Business was placed for moderate quantities, mostly for Dutch starch. Buying interest in cornstarch was improved and the market remained steady with the high cost of corn. Offerings of dextrin were light. Demand for withdrawals against contracts was active, with processors said to be about two months behind delivery schedules. Tapioca flour continued firm. Supplies of the high grades for shipment were practically unavailable. Offers for shipment were restricted to mediums and low grades. Prices were well maintained for shipment and the spot. Inquiry for albumen egg for nearby delivery was more active, though offerings were still restricted in view of the uncertainty as to costs. Nominal quotations were about 25 cents per pound lower for March delivery. Technical albumen was scarcer and firmer and limited supplies on spot were advanced about 10 cents per pound.

The overall picture of the market in tanning materials was still one of quiet trading in the various materials, with prices holding firm at current levels. A mildly increasing interest was reported on certain items, varying from week to week, but the general situation remained at a fairly low ebb. Last week saw continued heavy imports of quebracho extract amounting to 69,970 bags. Nutgalls were being offered on spot, but shipments offered were light and supplies here were reported as low. Trading in sumac, valonia and gambier were reported as light, with quebracho, mangrove and wattle somewhat stronger. The price structure all across the board on domestic and imported tanning materials was being maintained at levels quoted in recent weeks, and until the market becomes stronger no immediate changes were anticipated.

Market Trends

Prices Advanced

Egg albumen, tech., 10c. per lb.

Prices Reduced

Egg, albumen, edible, 4c. per lb.
Yolk, 3c. per lb.
Potato starch, ¼c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
393.0	396.3	396.3	293.5

(For Current Prices see Page 9)

Chemicals

Aluminum, Acetate—Business was fair and mainly for prompt requirements. Quotations were without change and steady.

Bichromates—Conditions remained firm in this market. Production moved steadily against current contracts. Export inquiry was active, with shipments limited owing to scarcity of supplies.

Sodium, Acetate—Market was steady, with trading light and spotty. Supplies were not abundant, but adequate to cover the demand. Prices were maintained at former levels.

Sodium, Hydrosulphite—Deliveries against contracts continued in good request. Quotations were well held.

Sizing Materials

Albumen, Egg—Supply situation was easier on the spot and edible albumen was reduced 4c. to $2.96 to $3 per pound, as to seller and quantity. Trading in new season's production was reported quiet, though consuming inquiry was quite active. Nominal quotations of $2.65 to $2.70 per pound were heard for March delivery, but buyers and sellers preferred to await further developments. Export inquiry was more active than for domestic requirements. Producers were not offering and awaited the announcement of government egg support price. Demand for technical was fairly active and prices were advanced about 10c. for limited supplies, to $1.35 to $1.65 per pound, depending upon quantity.

Dried egg production during December totaled only 162,000 pounds compared with 3,947,000 pounds for the same month last year. Production consisted of 16,000 pounds of whole egg, 88,000 pounds of dried albumen and 58,000 pounds of dried yolk. Output of dried egg during 1947 totaled 85,175,000 pounds compared with 125,446,000 pounds in 1946, according to the Bureau of Agricultural Economics. Production of liquid egg during December totaled 3,846,000 pounds compared with 16,604,000 pounds in December last year. The quantity produced for drying was much less than a year ago and accounted for the most of the decrease. Frozen egg production during December amounted to 3,266,000 pounds compared with 3,594,000 pounds in December last year. Production during the year totaled 364,836,000 pounds compared with 392,218,000 pounds during 1946, a decrease of 7 percent.

Albumen, Blood—Business was reported moderate and chiefly for actual requirements. Prices were without change and steady.

Corn Sugar—Chipped tanners grade was in fair demand and mainly for prompt delivery. Quotations were maintained at former levels.

Dextrin, Corn—Deliveries against former orders were reported in active request. Processors reported from seven to eight weeks behind delivery schedules. Market remained steady with the high cost of corn.

Egg Yolk—Quiet demand was noted for this material. Market was easier and prices were reduced 3c. per pound. Supplies on the spot were available at $1.12 to $1.14 per pound, according to quantity. Tanners yolk was unchanged at 5c. to 7½c. per pound, as to quantity and quality. Production of egg yolk was indicated at 58,000 pounds in December, compared with 38,000 pounds for the same period last year.

Sago Flour—Prices were reported easy, owing to liberal offers for shipment from primary sources and lack of buying interest. Shipments were offered freely. Stocks on the spot were quoted at 8c. to 8¼c. per pound, according to quantity. Arrivals totaled 680 bags at New York from Singapore last week.

Starch, Corn—Supply situation has eased and offerings were more liberal than for some time past. Consumers absorbed sizable quantities against contracts, but new business was reported light and spotty. Prices ruled steady, in sympathy with the high cost of corn. Visible corn supply increased 2,125,000 bushels for the week ended January 31, and totaled 15,235,000 bushels, compared with 28,985,000 bushels a year ago, according to the Chicago Board of Trade.

Starch, Potato—This market was easier as a result of lower prices for starch for shipment from the Netherlands. Dutch starch was offered at about 9¾c. per pound, in bulk, ex dock, Atlantic ports, and some trading was reported on this basis. Interest in domestic starch was lacking and Maine grinders reduced carlots to 10¼c. per pound, New York basis. Stocks on the spot were easier at 10½c. to 10¾c. per pound as to quantity. Idaho producers were reported working on a backlog of orders and were expected to start offering next month.

Tapioca Flour—Consuming inquiry was fairly active, with trading reported for moderate quantities on the spot and for shipment. High grades were reported sold up for shipment and offers were confined to medium and low grades. Prices were firm and unchanged. Medium was quoted at 9¾c. to 10¼c. per pound, and high grades at 11¼c. to 11½c. per pound, on the spot as to quantity. Inquiry was improved for manioc flour and trading was reported at 7c. per pound, ex dock last week for brewers' account. Imports of tapioca flour were reported at 6,830 bags at New York and 545 bags at Boston last week.

Tanning Materials

Chestnut Extract—Prices and market conditions remained unchanged, with trading quiet.

Divi-Divi — While low volume trading characterized this market, consuming inquiry was reported fairly active. Prices for shipment were firm.

Gambier—This tanning material was virtually not traded during the week in a market where nominal prices prevailed on an inactive market.

Logwood Extract—A fair and steady volume of business was being done at steady demand and firm prices.

Mangrove Bark—Imported last week were some 2,192 bags of this item from Zanzibar arriving at New York. The Bureau of Census reported importation during the month of September of 77,154 pounds of

For Late Market Developments, See Page 4

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mangrove, worth $9,159. The market was quiet.

Myrobalans—During the month of September imports of this item totaled 101 tons, valued at $4,572, according to the Bureau of Census. Last week some 1,280 bags were received at New York from Bombay. A generally mild interest was being shown in this market, but the overall picture was one of quiet trading at a relatively low volume under a firm price structure.

Nutgalls—Spot prices on this item prevailing in the market last week were 50c. per pound for Aleppo material, 44c. for Chinese, and 29c. for Istrian material. The market was reported as steady. Supplies here were light and offerings for shipment were also rare. Imports during the month of September amounted to some 44,800 pounds, valued at $10,269, according to the Bureau of Census.

Quebracho Extract—Imports of this item at New York were large, totaling some 69,970 bags, with an added 830 bags arriving at Boston. Bureau of Census reported that imports of extract during the month of September amounted to 15,669,308 pounds, valued at $1,148,522. Dealers reported a slightly increasing interest in this market, with trading on the upswing.

Sumac—This item was reported as showing mild interest in a market characterized by slow but steady trading. Prices were firm and no change in the immediate future was anticipated.

Valonia—No imports were reported last week on this item, and trading was stated to be quiet in all quarters. Prices were unchanged.

Wattle Bark—Some 5,483 bales were received at New York last week. Imports have been generally fair over a period of months. The Bureau of Census reported for the month of September some 3,555,927 pounds of bark imported. This material was valued at $80,148, and reflects the rather mild trading that has been characteristic of this market through the fourth quarter of last year and extending so far into the first quarter of this year. Prices, meanwhile have held firm.

Monsanto Advances Scott In Merrimac Division

Monsanto Chemical Company has appointed Milton J. Scott assistant director of research of its Merrimac division, Everett, Mass. In his new position, Mr. Scott will direct and supervise textile research and application, and will have charge of coordinating research with textile sales development and with other production groups.

He has been a research chemist or group leader in the company's plastics division since 1942, and has specialized in textile resins, surface coating, mouldings and laminations. He was formerly associated with the American Cyanamid Company and the Chrysler Corporation.

American Key Products Gets Potato Starch Distributorship

American Key Products, Inc., New York, has announced that the recently completed potato starch plant of the Idaho Potato Growers, Inc., Idaho Falls, Idaho, has made a successful initial run and that American Key Products has been appointed distributor. The plant has a productive capacity of approximately twenty tons per day, but due to lack of raw materials no regular operation will be possible during the remainder of the current season.

Trade Briefs

Pittsburgh Corning Corporation has developed a pipe insulation that can be used for both hot and cold line, indoors and outdoors.

Climax Molybdenum Company has elected Carl M. Loeb to its board of directors. Mr. Loeb is vice-president in charge of sales and development.

Armstrong Cork Company has appointed George M. Scattergood manager of the drug sundries department and E. F. Ebberts manager of the corks department, both in its glass and closure division.

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Drugs and Fine Chemicals

Price features last week in the market for drugs and fine chemicals were all on the down side. Reductions were made in quotations on butyl acetate and alcohol made in Illinois and Indiana; cream of tartar and Rochelle salt; menthol, nicotinamide and quicksilver. No changes were made in tartaric acid or tartar emetic prices, nor did the schedule on mercurials reflect a lowering of the price on quicksilver.

Competition in a rather dull spot market appeared to be the cause of the lowering of quotations on the materials named. Considerable quantities of foreign-made tartrates had been reaching this country for some time past. Also, substantial quantities of quicksilver had come here from Trieste. All this merchandise seemed to be in weak hands and for the time being conditions were highly favorable for buyers with firm orders in hand and calling for large quantities of materials. As to menthol the fact that a substantial quantity reached here from Japan and that Japan was returning to the world market as a factor in a commodity formerly well dominated by the Nips was reason enough for the reduction in local quotations.

Other phases of the market lacked new developments. Solvents in general came in for good demand and prices were well supported. Uncertainty as to the future of alcohol prices was unrelieved but demand for pure and specially denatured ethyl alcohol held high.

Codliver oil was very firm, here and abroad, where the recent rise in prices was firmly maintained. Castor beans continued to display strength and the next sales were expected to be made at an advance in prices prevailing in Brazil. Castor oil prices fell coincidentally with the drop in bean prices at the source. Caffeine was very firm at the late advance and little competition existed in the market for that item. Finally, the government asked Congress to extend the present allocation controls on quinidine and cinchona bark until such time as a plentiful stock of quinidine is in hand.

Acetaldehyde—The market was quiet from the point of view of prices but it was normally active as to demand, and undertones continued to be generally firm.

Acetamide—The market has been steady for a long period of time and the movement continued to be well maintained at firm prices during the past week. Supply was said to meet needs very well.

Acetophenetidin — Distributors indicated that some gain in demand along jobbing lines had developed. Producers indicated that the movement was steady and in good sized volume that continued to hold prices to a very firm, well stabilized position.

Acid, Ascorbic—Normality in demand and stability in price kept this market free from unusual development last week. It likewise was very steady in undertone. Supply could withstand a considerable expansion in consuming requirements and still leave deliveries on a prompt basis.

Acid, Boric—Contract tenders were reported to be usually prompt in being accepted. The price position was clearly described, schedules being steadily maintained and no more than the ordinary amount of competition prevailing on new business placed for immediate delivery.

Acid, Citric—Outlook for spring business was considered to be favorable. At the moment, the seasonally low volume of sales prevails but the time is not far distant when the need for this acid should swell, giving a lift to the absorption of the at present excellent production facilities.

Acid, Mandelic — Rather more than the recent amount of selling was reported but the gain was moderate and without much influence on the immediate position of the spot market for this material.

Acid, Tartaric — Two tartrates were reduced over the previous week end but no change in the tartaric acid schedule was made by the domestic manufacturers of that material. And they reported a better than fair demand and a well sustained price position in keeping with the situation governing the supply of raw materials.

Aconitine—Business was jobbing in character. It was also steady in volume and drew against a reserve that was moderate in size but being constantly replaced as sales make replacement imperative. Production costs have been well maintained.

Agar — A substantial quantity of this article arrived here from the primary market last week. The total was 1,139 bales and it came here from Kobe, being the first of several lots reported due to reach this country in the not distant future. The inbond price was said to be $2.75 per pound but prior to the arrival of this merchandise, firm offers had been made at $3.50 per pound on duty paid basis. All factors had been admitting the competitive character of the market. Last week they thought it might go some lower.

Alcohol—Consumption continued at an excellent clip, taking up production with promptness and showing a disposition to maintain if not actually to expand the current movement into consuming channels. Prices held steadily throughout the past week but there were some signs that competition from Cuba was working on the otherwise stable price position and some quarters said they would not be surprised if quotations eventually worked somewhat lower.

Ammonium Carbonate — Demand continued brisk and some sources of supplies in the past were unable to book new business for the time being. Undertones were maintained firmly and the market lacked any signs of a levening competition to create a more stable atmosphere for business in this commodity.

Ammonia Citrate—Small order business gained but quantity transactions remained conservative in number and size. Prices continued to be well stabilized and signs of a change were lacking.

Amyl Acetate — Good demand met the stalemate of an insufficient supply, holding all prices for this article to a very firm position and keeping the possibility of further advances to the fore.

Antipyrene—Production has gained little if any of late and with demand being maintained at very high level, the absence of an expanding output of this material could do no less than result in a market of very firm undertones and no competition.

Berberine—Attempts to get spot factors definitely to establish an open market price schedule for this material continued to be fruitless. The reply to requests for prices continued to be that current production was too small; that the total moved into consumption and left nothing upon which to base prompt delivery quotations.

Butyl Acetate—The producer of this article in Illinois and Indiana reduced quotations on the normal fermentation material and for the first time in a considerable period the price of acetate became different than that on butyl alcohol. New quotations on acetate were down 3c. and were established as follows: Tanks, 32c. per pound; tankwagons, 32½c.; drums, carlots, 33½c; less than carlots, 34½c. Material produced in state other than those mentioned above was maintained at unchanged prices.

Butyl Alcohol—The price on normal fermentation material made in Illinois or Indiana were reduced 1c. per pound and instead of being priced identally with butyl acetate, the alcohol was 1½c. higher. The new quotations were established as follows: Tanks, 34c. per pound; tankwagons, 34½c.; drums, carlots, 35½c.; less than carlots, 36½c. No change was made in the schedule on this article produced elsewhere than in the two states mentioned above.

Caffeine—Prices failed to develop further change. However, they occupied a position of substantial strength that in no small measure was backed by the excellently maintained total volume of consuming requirements. Opportunities for price competition were few.

Camphor—Demand was better than good; it was excellent and reached the domestic distributors of synthetic material steadily and well up to volume prevalent in the recent past. Interest in the re-entry of Japan into the production field of crude camphor

For Late Market Developments, See Page 4

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Market Trends

Prices Advanced

None

Prices Reduced

Butyl acetate, normal, fermentation, Ind., Ill., 1c. per lb.
Castor oil, 1c. per lb.
Cream of tartar, 3c. per lb.
Menthol, 25c. per lb.
alcohol, normal, fermentation, Ill., Ind., 1c. per lb.
Nicotinamide, 50c. per kilo.
Quicksilver, $2 per flask.
Rochelle salt, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
256.6	257.6	256.3	247.7

(For Current Prices see Page 9)

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was noted. Southern Kyushu island has forests of camphor trees which, however, do not equal those on Taiwan, formerly Formosa and the center of Japanese camphor production. And there is also the matter of China's possession of Taiwan and the trend there toward restoration of camphor production and export.

Castor Oil—Prices continued strong in Brazil where substantial selling of beans in the recent past raised quotations to their at present strong position. The local oil market underwent a 1c. per pound decline in prices for all forms of this oil.

Arrivals of castor beans last week totaled 47,511 bags, or 7,126,650 pounds, contrasting with the previous week's arrival at 19,138 bags, or 2,990,700 pounds, and that a year ago at 18,427 bags, or 2,764,050 pounds.

Total arrivals since January 1 this year became 189,718 bags, or 28,457,700 pounds, comparing with 258,970 bags, or 38,845,500 pounds arrived in the corresponding period in 1947.

Cinchonine, Cinchonidine—Leading suppliers of this article continued to expect that the delivery position would show an increasingly earlier improvement. However, it appeared that where some quotations existed, prompt delivery goods were not always obtainable even in limited quantities.

Colledion—Both forms of the article were in steady call. Quantities required were not expansive but they were equal to those current in the market during recent weeks and the entire market position of steady and stable.

Cream of Tartar—Makers of this article surprised in some measure by reducing prices to the extent of 3c. per pound. In quantities of 5,000 pounds, one delivery, the market became 35c. per pound. For smaller quantities, 36c. was wanted for barrel packing and 36½c. for packing in kegs. A 1c. per pound advance over those quotations was in effect for deliveries out of Chicago warehouse while shipments from San Francisco warehouse commanded a 1¼c. per pound premium. Only prompt shipment was offered. The movement in buyers' favor seemed related to the development of a more competitive market when foreign goods became more of a factor in local circles.

Creosote—Smaller and slower movement of medicinal creosotes were reported but the market was still a very steady affair in the absence of selling pressure among the leading suppliers.

Emetine—Stable prices and a fairly stable supply tends to maintain market in equilibrium. Reserves were not substantial in size, yet all actual needs were being met on a prompt delivery basis. Trade was normally active.

Epsom Salt—USP in carlots continued to be offered at $2.50 per 100 pounds in carlot amounts, and the less than carlot requirements of consumers were supplied on the basis of $3.25 to $3.50. This schedule, set up around the first of the year, was reported to be well backed by consuming requests.

Ethyl Acetoacetate—Good demand was noted. In some respects the call was more active and involved a moderate increase in quantities required. Basically, the market continued to be in very firm price position, competition between suppliers being negligible.

Glycerin—High volume production of all grades of refined glycerin was reported and the movement into consumption was certainly not in low or second speed. Pricewise, the market seemed to have been set in a fairly stable position, refiners' quotations differing by ¾c. per pound, according to seller, with demand being more than sufficient to maintain trade on a steady, satisfactory basis at both ends of the range. The fact that a worldwide shortage exists is probably not without its effect on the natural glycerin market despite the pending arrival of substantial quantities made synthetically from petroleum.

Iron Citrate—Jobbing business showed some improvement and a firmer undertone prevailed—if that were possible in view of the price stability prevailing over a long period of time. Supply seemed ample to cover reasonable expansion in consumer requirements.

Iron-Ammonium Citrate—Production was subject to steady absorption in quantities entirely normal for the article and at prices fully firm and free from any actual or pending unsettlement.

Lanolin—The market has become reasonably stable. At least, prices have shown a disposition to harden and under a steady demand for moderate quantities, more stability has been the lot of prices in recent weeks. Trade was fair last week, but it was not expansive.

Nicotinamide—Prices were reduced 50c. per kilo, setting the market at $9 per kilo for 50 kilos or more; 10 kilo lots, $9.10; 2½ kilos, $9.20; 500 grams, $9.30 per kilo.

Quinidine—The government has asked Congress to extend the present allocation controls on this cinchona derivative.

Magnesium Carbonate — Trading was about normal during the past week, and in total volume compared favorably with the call prevailing for some time past. Stable prices have been a feature of the market for a considerable length of time and sellers

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last week expressed the belief that stability would continue.

Menthol—While actual sales of recently arrived menthol will have to be made before a definite price position can be established, the talk last week was a market around $8.75 per pound when quantity lots were up for disposal. Many open quotations were $8.80 per pound, with bids likely to be entertained. Small lots ranged as high as $9.

Early last week arrival of 475 cases of natural material was noted. The goods were of Japanese origin and it was the impact of this arrival that pressed quotations to lower levels coincident with the landing of the expected shipments. The goods were shipped mainly from Yokohama, though two lots came from Kobe. The general feeling now is that Japanese production will play an increasing part in the worldwide market for this material.

Mercurials—Prices for these derivatives of quicksilver failed to show any change last week despite the fact that the mercury market did undergo a decline, a movement caused mainly by metal being in weak hands and moving very slowly at the moment. Mercurials held steady, both as to price and as to interest displayed by manufacturing consumers of those entities.

Rochelle Salt — A surprise development was a 1c. per pound reduction on this item, a movement that was also accompanied by a drop in the schedule on cream of tartar to the extent of 3c. per pound. New quotations on Rochelle salt were 31½c. per pound in quantities of 5,000 pounds, one shipment. Smaller lots, 32c. in barrel packing. Keg packing was ½c. higher. Shipments out of Chicago warehouse commanded a 1c. advance over spot prices, while shipments from San Francisco warehouse were 1¼c. higher than spot.

Squibb Publishes Booklets On Penicillin, Streptomycin

E. R. Squibb & Sons, New York, has published two booklets containing a re-evaluation of the significance of penicillin serum levels, and a summary of the latest authoritative thinking on streptomycin therapy. The booklets are available on request to interested pharmacists.

The booklet entitled "Penicillin Blood Levels—An Ever-Changing Picture" points out the useful purposes that have been served by the penicillin serum determination, and lists its limitations. Charts show the great variations that occur in the serum levels of different patients, explaining why occasional serum level determinations are of such little value, and why average concentration curves are not to be interpreted too rigidly.

The publication on "Streptomycin Therapy" contains, in addition to information on the indications, methods of administration, dosages and toxicity of the product, a comprehensive and detailed table which may be used as a guide to dosage. Another table is designed to aid in determining when it is best to use streptomycin, penicillin or sulfonamide therapy.

Merck Adds McMullen To P.W.R. Corp. Staff

Merck & Co., manufacturing chemist, Rahway, N. J., has added Herbert W. McMullen to the staff of its foreign sales subsidiary, P. W. R. Corporation, New York. Mr. McMullen, who will function as an export sales representative, has previously been associated with the British Purchasing Commission and the War Production Board.

Trade Briefs

Penicillin shipped to India and Pakistan by the Canadian Red Cross as gifts amounted to 1,300 pounds to each country.

Leo-Industrie, a new share company, is planning the erection of a laboratory for the production of penicillin in Rome, Italy.

Cinchona stocks in Java during October amounted to 6,015 metric tons, of which 5,823 tons were in the hands of the Dutch and 192 tons were held by the republic.

Kenneth B. "Pete" Hurd has resigned as vice-president and publisher of "American Druggist" to become vice-president and a director of Federal Advertising Agency.

Chemicals imported into Iceland during the first ten months of 1947 were valued at $640,790, compared with $625,000 in the corresponding period of the previous year.

Drugs, chemicals and fertilizers imported into Australia during the period July-October, 1947, advanced in value to £3,566,000 from £2,563,000 in the corresponding period of 1946.

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APMA Pacific Section To Meet February 19-20

The annual meeting of the Pacific Coast section of the American Pharmaceutical Manufacturers Association will be held at the Biltmore hotel, Los Angeles, on February 19 and 20. The program will include sessions on production and sales and advertising, a scientific session and a medical session. Program, as announced by the section, follows:

February 19

The production session will be presided over by Clarence A. Halm, vice-president and production manager of the Harrower Laboratory. It will include talks and discussions on: "Production Control and Costs," by David Stewart; "Pharmaceutical Plant Engineering," by E. B. Nitchie, Cutter Laboratories; "Glandular Extract Manufacture," by R. C. Bruner, pharmaceutical consultant, and "Current Trends in Pharmaceutical Fields," by E. C. Merrill, Rexall Drug Company.

The sales and advertising session will be under the chairmanship of George Fox, sales manager of Boyle & Co. The topics for discussion will be: "Lets Talk Sales," by A. T. Danielson, Barker Brothers; "Repackaging Medicinal Items, by Walter Sedgley, Rexall Drug Company, and "What Retail Druggists Expect from Manufacturers, by California State Senator Fred Kraft. These discussions will be followed by a film entitled "Strange Hunger," furnished by the Rexall Drug Company.

February 20

Presiding over the scientific session will be Arthur Cherkin, of Don Baxter, Inc. Subjects for discussion will be: "Control of Biologicials and Pharmaceuticals," by Dr. Walter E. Ward, Cutter Laboratories; "Fundamental Aspects of Allergy," by Prof. Dan H. Campbell, California Institute of Technology, and "Problems of Personnel Safety Related to Radiation," by Dr. Fred A. Bryan, assistant director of the atomic energy project of the University of California at Los Angeles. The medical session will be presided over by Dr. Paul Spickard, medical research director of the Rexall Drug Company, and will feature talks by three speakers to be supplied by the Los Angeles County Medical Association.

Merck Advances Johnson

Merck & Co., manufacturing chemist, Rahway, N. J., has appointed Reverdy Johnson assistant secretary. Mr. Johnson, who is a member of the New York and New Jersey bars, was associated with the firm of Edwards, Bower & Pool, New York, before joining Merck & Co. in 1941.

Johnson & Johnson Appoints New York Sales Director

Johnson & Johnson has appointed D. J. Schiffeneder New York regional sales director. Mr. Schiffeneder joined the organization as a salesman in Milwaukee in 1927, and was named Midwest divisional manager in 1930. He was transferred to New York as divisional manager in 1937.

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Standards Bureau Names Dr. Kline to New Post

OPD Washington Bureau

The National Bureau of Standards has appointed Dr. Gordon M. Kline assistant chief of the division of organic and fibrous materials, to succeed Philip L. Wormeley, who retired on December 31 after thirty-seven years with the bureau. Dr. Kline will also continue to serve as chief of the organic plastics section.

Dr. Kline joined the staff of the bureau in 1929 after a short time on the staff of Picatinny Arsenal, and was named chief of the organic plastics section in 1945. He had previously been a research chemist with the New York State Department of Health for twelve years. For almost twelve years he has served as technical editor of "Modern Plastics" and editorial director of "Modern Plastics Encyclopedia."

Mr. Wormeley joined the National Bureau of Standards as a technologist in 1910. He was successively named chief of the rubber and leather section, chief of the rubber section, chief of the testing and specifications sections, and assistant chief of the division of organic and fibrous materials. He was previously assistant engineer and engineer of tests in the bureau of chemistry of the Department of Agriculture.

Quinidine Distribution

—*Continued from page 5*

noted, is based on an official statement of the Trade Commissioner for the Netherlands East Indies. The demand estimate is derived from a statistical appraisal of requests. It is supported by a survey made by the American Pharmaceutical Association, indicating that, notwithstanding the recent increases in allocations, pharmacists continue to have difficulty in securing sufficient material to meet even their most urgent requirements.

Of the 225,000 ounces scheduled for imports in the first half of 1948, about 100,000 ounces is to move through private channels, all in the first quarter, and the remainder will be brought in by the government.

"There is a potential danger that a substantial portion of the quinidine moving through private channels might be diverted to chill tonics and other less essential uses," the secretary said. "However, the principal distributors are aware of the critical need of the drug for cardiac treatment and will be urged to do all within their power to assure its direction to cardiac use.

"In order to channel quinidine to the most urgent cardiac cases, a pattern of coordination between government and private distribution will be needed. With distribution partially in private hands in the first part of 1948, an opportunity will be provided to appraise the need or lack of need for further government authority to assure direction of limited supplies available to the most critical cases of cardiac disorders. This sharing of responsibility should determine to the satisfaction of both government and industry whether reinstitution of full controls over all quinidine, whether originating from public or private stocks, is necessary."

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APMA Scientific Committee Meeting Program Announced

Program for the Eastern meeting of the scientific committee of the American Pharmaceutical Manufacturers Association, which will be held at the Waldorf-Astoria hotel, New York, on February 24, has been announced by Dr. Frederick F. Yonkman, of Ciba Pharmaceutical Products, Inc. The program follows:—

Morning Session

"Progress in Antihistamine Therapy," by Dr. William T. Strauss, Hoffmann-LaRoche, Inc.; "Recent Advances in Analgetics," by Dr. Maurice Tainter, Sterling-Winthrop Research Institute; "Biologic Uses of Radioactive Isotopes," by Dr. Edith Quimby, Columbia University, and "Biologic Tagging and Tracing—Discussion and Demonstration," by Dr. F. C. Henriques, jr., Tracerlab, Inc. At the luncheon session there will be a Technicolor film on the Bikini project, with remarks by Dr. H. E. Stokinger, University of Rochester.

Afternoon Session

"Repository Forms of Penicillin and Other Antibiotics," by Dr. A. R. Menotti, Bristol Laboratories; "History and Development of Filtration," by G. D. Dickey, General American Transportation Company; "Molecular Distillation in Pharmaceutical Manufacturing," Dr. Norris Embree, Distillation Products, Inc., and a panel discussion on "Parenteral Solution Rejects—Causes and Corrective Measures," led by Dr. Joseph W. Kouten, Carroll Dunham Smith Pharmacal Company. Members of the panel will be Dr. A. E. Tiesler, Lederle Laboratories; Dr. E. G. E. Shafer, Hoffmann-LaRoche, Inc.; Dr. J. F. Greene, Kimble Glass Company, and Dr. Lloyd C. Miller, Winthrop-Stearns, Inc.

Schieffelin & Co. Shifts Laboratory Personnel

Schieffelin & Co., pharmaceutical and research laboratories, New York, has appointed Robert T. Bacheller general manager of its affiliate, Almay, Inc., and has named Stanley Bendetson to fill Mr. Bacheller's position as advertising director of its laboratory division. The company has also engaged Albert V. Roche, jr., as professional service supervisor and has named John Byron Eastern district sales supervisor. Mr. Byron was formerly laboratory division sales representative for Eastern Massachusetts.

Drug Import Rules For Eire Announced

The Office of the Postmaster, New York, has announced that the following products will be admitted into Eire only if the addressee is in possession of an import license issued by the Department of Health, Dublin: vaccines, serums, toxins, antitoxins, antigens, salvarsan and analogous substances, penicillin, insulin, sterilized surgical catgut, and pituitary preparations and other therapeutic substances of animal origin intended for injection except adrenalin.

ACS Sections Elect

Dr. Charles K. Hunt, supervisor of applied research of Sharples Chemicals, Inc., Wyandotte, Mich., has been elected chairman of the Detroit section of the American Chemical Society. Other officers chosen by the section are: chairman-elect, Dr. George Rieveschl jr., Parke Davis & Co.; secretary, Ralph L. Seger, United States Rubber Company, and treasurer, Dr. F. Leslie Bates, University of Detroit.

The Southeastern Texas section of the society has elected Dr. Sherman S. Shaffer, head of the experimental and testing division of the Humble Oil & Refining Company, Baytown, Tex., chairman, and has named Dr. W. O. Milligan, professor of chemistry at Rice Institute, chairman-elect. W. R. White, Hughes Tool Company, was elected secretary-treasurer.

James R. Owen, of the research department of the Phillips Petroleum Company, Bartlesville, Okla., has been elected chairman of the society's Northeast Oklahoma section. John E. Mahan and Emory W. Pitzer, both of the Phillips Petroleum Company's research department, were named vice-chairman and treasurer, respectively, and Barton H. Eccleston, of the Petroleum Experiment Station, was elected secretary.

The Northeastern Ohio section of the society elected Howard W. Davis, engineering assistant to the plant engineer of the Industrial Rayon Corporation, Painesville, Ohio, chairman. Other officers are: chairman-elect, Dr. M. J. Skeeters, Diamond Alkali Company; secretary, Clayton L. Dunning, Diamond Alkali Company, and treasurer, John E. Brothers, Ohio Rubber Company.

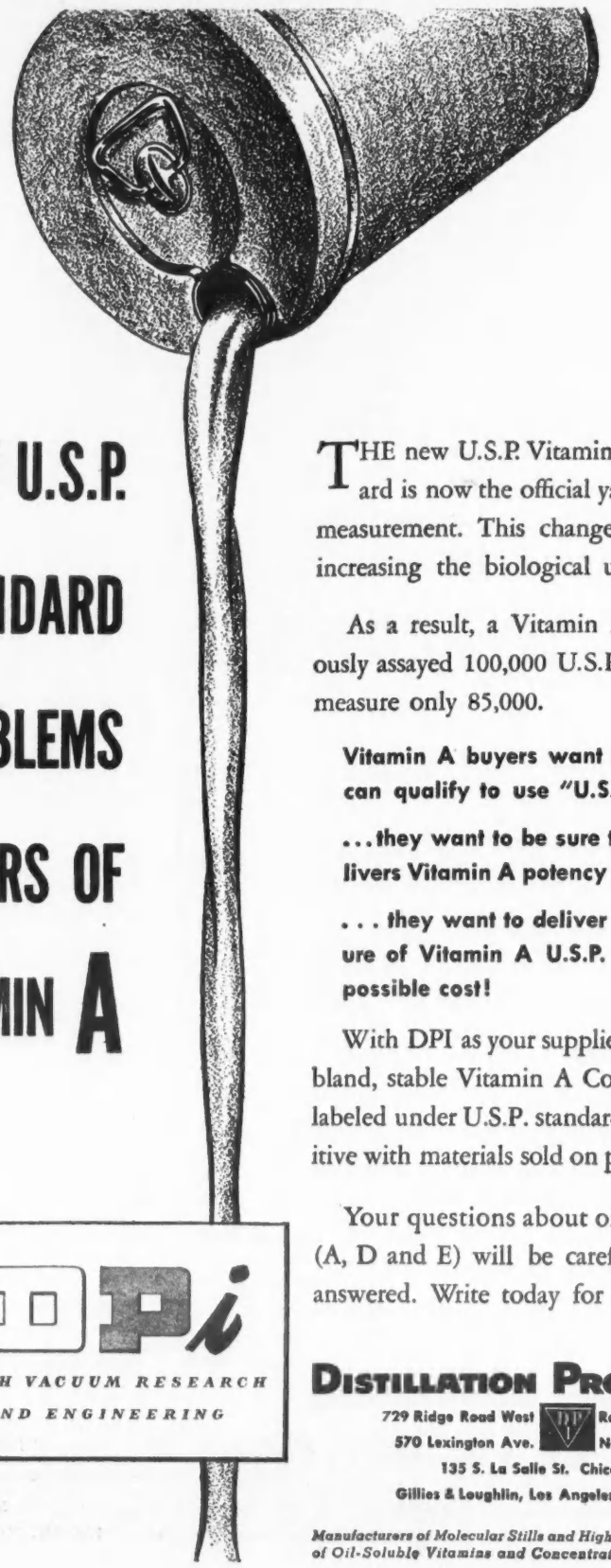
Squibb Gets Citation

E. R. Squibb & Sons, New York, recently received a citation from the city of New Brunswick, N. J., in recognition of the part the company's plant has played in the growth and development of that city. The citation, in the form of a scroll, was presented to Carleton H. Palmer, chairman of the board of Squibb, by Chester W. Paulus, mayor of the city.

Trade Briefs

Martin & Douglas, Inc., has been formed in Orange county, Cal., to manufacture and deal in chemicals, particularly agricultural chemicals. Directors are Walter Desmond, jr., and Kenneth E. Sutherland, both of Long Beach, and Madeline Jurkovich, of Huntingdon Beach.

Industrial Chemical Corporation, recently formed in Los Angeles, with a capital of $100,000, lists the following directors:—Leona M. Loichinger, Walter W. Weel and Goldie Dichner, of all Los Angeles. Legal representative is J. Russell Myers, 611 Financial Center building, Los Angeles.



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Parenteral Drug Makers Elect Dr. Naef President

The Parenteral Drug Association elected Dr. Paul A. Naef, Sandoz Chemical Works, Inc., president at its recent meeting in New York. Other officers chosen were: Vice-president, Dr. Paul V. Maney, Barlow-Maney Laboratories, Inc.; secretary, John J. Miskel, Rare Chemicals, Inc., and treasurer, Joseph Ushkow, Endo Products, Inc. New directors elected were: Paul deHaen, Ames Company; Dr. Julian R. Reasenberg, Mizzy, Inc.; Theodore A. Blackman, Premo Pharmaceutical Company, and Sidney Cohen, Laxseed Company.

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Bids Wanted

Alphamethylstyrene, 500 pounds, Army Ordnance Department (Dover, N. J.) invitation 100, February 16.

Aluminum oxide, 36,000 pounds, Army Map Service (Washington 16, D. C.) invitation 28, February 12.

Anti-freeze compound, 949,895 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 127, February 27.

Blue lead, in oil, 4,000 pounds, Corps of Engineers (Nashville, Tenn.) invitation 70, February 25.

Cornstarch, 240,000 pounds, Army Quartermaster (Chicago 9, Ill.) invitation 359, February 13.

Disinfectant, 3,300 gallons, Bureau of Federal Supply (Washington 25, D. C.) invitation 3W-600-44-R, February 12.

Drugs and chemicals, including heparin, calcium hydroxide, epinephrine, sodium bicarbonate, Army Medical Procurement Office (Brooklyn 1, N. Y.) invitation 417, February 16; sodium idomethanesulfonate, ergotamine tartrate, tetracaine, hexylresorcinol, invitation 422, February 16; thiamine hydrochloride, invitation 432, February 16; acetic acid, 2,880 one-pound bottles, ammonia solution, 7,200 one-pound bottles, invitation 430, February 16; Veterans Administration (Washington 25, D. C.) invitation A-133, February 17; invitation A-132, February 16; invitation A-131, February 13.

Egg albumen, flake, 1,000 pounds, Army Quartermaster (New York 3, N. Y.) invitation 485, February 11.

Kieselguhr, 47,500 pounds, Army Ordnance Department (Dover, N. J.) invitation 94, February 20.

Lacquer, 2,000 gallons, Army Chemical Center Md., invitation 271, February 13.

Lard oil, 2,004 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 129, February 13.

Laundry starch, 25,000 pounds, Marine Corps, Navy Department (Washington 25, D. C.) invitation 424, February 13.

Linseed oil, raw, 250 gallons, District of Columbia Purchasing Officer (Washington 1, D. C.) schedule 11324, February 12.

Mercaptobenzothiazole, 29.53 long tons, Army Quartermaster (New York 3, N. Y.) invitation 485, February 11.

Motor fuel, as required from May 1 through October 31, 1948, Bureau of Federal Supply (Washington 25, D. C.) invitation 9G-9696-R, February 17; as required from July 1, 1948, through June 30, 1949, March 26.

Nitro-premix, 20,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 103, February 12.

Oleomargarine, approx. 576 pounds Department of the Interior (Chicago 6, Ill.) invitation 123, February 13; 217,432 pounds, Veterans Administration (Washington 25, D. C.) invitation 117-S, February 24.

Paint, enamel, 1,500 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8891, February 11.

Paraffin, refined, 2,880 pounds, Veterans Administration (Washington 25, D. C.) invitation A-130, February 12.

Petroleum, heavy liquid, 42,240 gallons, Veterans Administration (Washington 25, D. C.) invitation A-130, February 12.

Phosphoric acid, 255,720 pounds, U. S. Air Force (Wright Field, Dayton, Ohio) invitation 724, February 18.

Polychlornaphthalene, 140,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 95, February 27.

Potassium bicarbonate, 1,872 pounds, Army Chemical Center, Md., invitation 277, February 18.

Potassium nitrate, 95,000 pounds, Army Ordnance Department (Dover, N. J.) invitation 93, February 16.

Pyroxylin dope, 2,703 gallons, U. S. Air Force (McClellan Field, Calif.) invitation 108, February 11.

Rock salt, 90,000 pounds, Bureau of Federal Supply (Washington 25, D. C.) invitation 1D-59-370-R, February 10.

Rubber dressing, 4,480 gallons, U. S. Air Corps (Wright Field, Dayton, Ohio) invitation 712, February 17.

Salad oil, 32,405 gallons, Veterans Administration (Washington 25, D. C.) invitation 112-S, February 19.

Sealing compound, 1,080 gallons, Army Ordnance Department (Metuchen, N. J.) invitation 128, March 1; 250 gallons, Navy Department, Aviation Supply Office (Philadelphia 11, Pa.) invitation 206, February 12; 6,000 pounds, Army Transport Corps (Marietta, Pa.) invitation 179, February 20.

Shortening, various, 274,150 pounds, Veterans Administration (Washington 25, D. C.) invitation 113-S, February 20.

Silica gel, 7,500 pounds, Army Chemical Center, Md., invitation 265, February 11.

Soap, granular hand, 7,100 pounds, Navy Purchasing Office (New York 3, N. Y.) invitation 2069, February 12; chip, 129,420 pounds, laundry bars, 221,000 pounds, laundry powder, 284,900 pounds, toilet, white, 121,650 pounds, Veterans Administration (Washington 25, D. C.) invitation 108-S, February 17; soft, 11,136 pounds, invitation A-130, February 12; concentrate, 165 gallons, Veterans Administration Hospital (Northport, L. I.) invitation 48-356, February 11.

Sodium monofluoracetate, 1,982 pounds, Army Quartermaster (New York 3, N. Y.) invitation 483, February 16.

Tetramethyl thiuram disulphide, 14.77 tons, Army Quartermaster (New York 3, N. Y.) invitation 485, February 11.

Thinner, lacquer, 10,000 gallons, Army Chemical Center, Md., invitation 269, February 12; 300 gallons, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8891, February 11.

White lead, in oil, 1,000 pounds, Corps of Engineers (Nashville, Tenn.) invitation 70, February 25.

Zinc oxide, in oil, 20,000 pounds, Panama Canal Purchasing Officer (Washington 25, D. C.) schedule 8891, February 11.

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Botanical Drugs, Spices, Gums

The botanical market was reported to be exceptionally quiet last week. Demand for both medicinal and flavoring botanicals was on the low side, total trading showing considerable contraction from the recent volume of trade. For the most part, prices held to steady position in both groups but the trend displayed in condimental items was upward. The impact of the assassination of Mahatma Gandhi was felt in the spice markets throughout the world and between the announcement of his death and the following Tuesday, prices, particularly of produce originating in India, but also that produced in other parts of of the Far East, rose sharply and ruggedly.

The effect on primary market advances was tempered locally by the virtual withdrawal of buyers from the spot market pending further developments. The wisdom of such a withdrawal became manifest later on when quotations cabled from the Far East showed substantial cancellation of most of the earlier advances. However, by the close of the week, some items from that part of the world had been established at moderately higher spot prices.

Medicinal botanicals held generally steady in price notwithstanding extremely moderate demand that came from manufacturing consumers. Lobelia—a very scarce and high cost item—was higher on the week but linden flowers were shaded slightly. Rhubarb continued to be unsettled by competition and shading of current quotations would not be unlikely. Goldenseal was numb under little demand but first costs and spot prices seemed to have been lined up sufficiently to check the downward trend of quotations. Balsams were steadier than they had been. Gums were quiet but a few were objects of considerable competition—benzoin and mastic, for example.

Balsams

Copaiba—The market was steady under the influence of a fair sized demand on jobbing account. Prices were well maintained and showed no tendency toward change last week.

Fir — Canadian balsam continued to be very scarce as to supply and strong as to price. Replacement was said to justify current quotations. Oregon balsam, however, was rather quiet and moderately easy, though prices held unchanged.

Barks

Angostura—Demand along jobbing lines showed moderate revival last week and buyers found the market to be on the firm side. Some quarters had very little to offer and in no quarter was the holding truly substantial in size.

Cinchona—The secretary of commerce in the national government has requested Congress to continue the present government control over this bark until such time as quinidine, a derivative, is in adequate supply.

Cocillana — The market was moderately active and no more than steady in price under the influence of fair sized spot reserves that are still in hand as the most active season of the year draws to a close.

Beans

Vanilla—Moderate quantities of Bourbon beans reached this market from Madagascar last week and the goods came to a market in exceptionally firm price position. To this time, devaluation of the French franc has not cheapened the import cost of Bourbon beans and under the colonial policy now in force, it seemed unlikely that more francs for a dollar would find reflection in lower import costs on future arrivals. Mexican beans were also said to be steady with prices being well supported at the source as well as on spot.

Imports Detained by FDA

New York

Week Ended January 30

Cassia oil, 5 drums: not U.S.P.
Cod oil, 107 drums: decomposed.
Cologne water, 20 bottles: no q.c. declaration.
Colombo root, 126 bags: insect bored.
Coriander seed, 2,099 bags: filthy.
Mace, 176 cases: insect infested.
Nutmegs, 962 bags: wormy, moldy and insect bored.
Pepper, black, 50 bags: insect bored and moldy.

Market Trends

Prices Advanced

Drugs

Lobelia herb, 3c. per lb.

Other Articles

Cardamom, decorticated, Guatemalan, 5c. per lb.
green, Alleppey, 5c. per lb.
Cassia, China, select rolls, ½c. per lb.
Saigon, all medium, ½c. per lb.
Yunnan, ½c. per lb.
Celery seed, Indian, 1c. per lb.
futures, 1½c. per lb.
Cinnamon, Ceylon, No. 2, 1c. per lb.
Fennel seed, Argentine, futures, 3½c. per lb.
Fenugreek seed, Indian, ¼c. per lb.
Mustard seed, Montana, yellow, ½c. per lb.
Pepper, black, nearby futures, ½c. per lb.

Prices Reduced

Drugs

Linden flowers, 1c. per lb.

Other Articles

Cassia buds, China, 1½c. per lb.
Laurel leaves, Turkish, 1c. per lb.
Mustard seed, California, brown, 1½c. per lb.
Saffron, Mexican, 5c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
239.6	239.4	246.0	286.3

(For Current Prices see Page 9)

Berries

Cubeb—Though demand did little more than simmer, the market has a steady to firm appearance throughout the past week and quotations were said to have been held in line with the replacement position of the article.

Raspberries — Former suppliers of this article in substantial quantities reported no stocks in hand and declared that the market was strictly nominal. Replacement will have to await the preparation of new crop goods in the Farwest next summer.

Flowers

Chamomile—Though demand was not unusual, it was also about normal in terms of normality as established by sales over the past month or so. Prices were steady to firm and replacement cost was said to allow margin for shading on firm orders.

Linden — Sales were reported to have been made last week at 34c. to 35c. per pound in a market that consisted mainly of small orders for immediate requirements. Stocks were not very large.

Saffron—Mexican goods were said to have been in the spot market last week at $1.35 to $1.40 per pound though there was not a great deal of spot trading in the article. Spanish flowers in the replacement markets were said to be holding generally firm and at levels tending to make for firmness in the very slow spot market of the present time.

Gums

Benzoin—Sumatra gum was under competitive pressure last week and although open quotations were not changed, it was intimated that attractive business might find sellers disposed to shade quoted prices, if only moderately. An importation of eight cases from Singapore was noted.

Karaya — The troubles in India at one time during the past week had a tendency to stiffen export prices on this article and some quotations came in at an advance. Later, however, the market subsided and at the close of the week it was about unchanged. Importations during the period under review totaled 1,019 bags, all from Bombay.

Mastic—This slow moving article was no better than steady in local circles and an attractive inquiry might find some sellers disposed to shade quoted prices within moderate limits permitted by the present replacement cost in the primary market.

Herbs and Leaves

Laurel—Turkish leaves were more competitive and offerings were made with fair freedom on the lower basis of 9½c. to 10c. per pound.

Lobelia—Only the smallest kind of spot stocks were available and under competitive conditions the article was reported sold last week on the basis of 85c. to 90c. per pound. The tendency toward further advance was expected to continue.

Marjoram—The price range for spot goods from Chile changed last week, becoming narrower and standing at 15c. to 16c. per

For Late Market Developments, See Page 4

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Pipsissewa
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Feb. 9, 1773—William H. Harrison
Feb. 12, 1809—Abraham Lincoln

Died
Feb. 3, 1924—Woodrow Wilson

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pound under the influence of demand not better than hand-to-mouth.

Oregano—Portuguese herb in future arrival position was offered on the basis of 14½c. to 15c. per pound. Mexican material was about steady with demand covering immediate needs for the most part.

Thyme—Spanish was available over a much narrower range in price, the market standing at 12c. to 12½c. per pound most of last week. The position of French material remained uncertain and clarification awaited the adjustment of export business to the devalued French franc.

Miscellaneous

Cantharides—Demand for Chinese flies revived along jobbing lines and buyers found the market disposed to hold somewhat firmer under the absence of competition. Replacement cost has not cheapened of late.

Corn Silk—The market was in very good supply and goods sold moderately well under distinctly competitive conditions that kept prices favorable for consumer operations.

Dragons Blood—Twenty-one cases reached here from Singapore last week but it was not certain if the article was mass of thin reeds. The latter had not been readily obtainable for some time. Drops were in good reserve. Demand for the article in any form was moderate.

Roots

Angelica—European prices have not weakened for a long time past. Furthermore, European offerings were reported to be conservative and so far as known, none of the prewar "twisted" item has yet become available generally on this market.

Belladonna—Though not exactly firm, the market was at least steady last week and prices failed to decline further. Demand was very light. Stocks were moderate in size.

Galangal—Plentiful stocks kept competition active, especially in view of the rather restrained interest shown by buyers in recent weeks. Sellers said it was mainly a buyers' market but did not think prices could go much lower.

Ipecac—About the only item of interest in this material was the arrival of 13 bags from Cristobal. Any arrival of this article is news, the importations being so infrequent and small.

Licorice—Since the market reached its low point some time back, prices have assumed a steadier position and last week they were declared to be so low that replacement cost alone would harden the price views of local merchants.

Orris—From Marseille, France, came 134 bags of this root last week and the goods came to a market already well stocked with a slow moving item, the price for which showed a disposition to bend under competition.

Rhubarb—Outwardly unchanged, this article was far from being even steady. Competition was bound to be the governing element in most transactions and the tendency to accept reasonable bids was almost general. The quality of most root was reported to be good.

Seeds

Anise—Generally steady as to price but lacking new developments in the matter of prices.

Cardamom—Guatamalan decorticated seed was advanced to $1.10 to $1.15 per pound under the force of fairly expansive demand. Green Alleppy material was also higher at $1.15 to $1.20. Bleached seed held steady to firm under rather light call.

Celery—Prices boomed in India on the death of Gandhi but subsided later on when calm came to the distressed people. Spot seed was higher at 25c. to 25½c. per pound but futures were to be had at 24c. to 24½c. in better than fair sized quantities.

Cumin—Syrian goods were higher at 25½c. to 26c. per pound and seed from Persia was raised to the same level, developments reflecting changes in the replacement position rather than better local demand.

Fennel—Argentine futures were smartly higher at 11½c. to 12c. per pound and it was felt that the spot market would work up once permanence of the primary market had become established.

Fenugreek—Spot offerings of seed from India were made at an advance to the basis of 10c. to 10½c. per pound under the influence of a firmer undertone that came with a broader trading interest in the item.

Flea—Something new has been added. France is able to ship psyllium husks, a development which numerous agents in this market had urged without success on their French principals. An arrival of 50 bags of husks from Marseille was noted. Also, 1,078 bags reached here from Bombay.

Spices

Allspice—Mexican seed moved into nominal position at 12½c. per pound on the absence of normal offerings on the spot.

Cassia—China buds were lower at 22c. to 22½c. and selected rolls were higher at 11½c. to 12c. Yunnan was up 13½c. to 14c.

Cinnamon—The sole change in price was in No. 2 Ceylon on the spot, which article sold higher at 31c. to 32c.

Pepper—News of the assassination of Gandhi put the black pepper market sharply higher by several cents per pound over the previous weekend. Early last week, however, sanity returned to trade and values sank back to their former levels. Nearby futures scored a 1c. advance, ending the week at 42 to 42½c. per pound.

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Essential Oils, Other Aromatics

Both essential oils and aromatic chemicals were in a firm position on the New York market last week. No product in either group was reported down in price, and among the essential oils there were three that showed gains. The weekly price index reflected this steadying tendency when it showed an increase of 0.8 point over the figure for the previous week.

Most of the major houses reported some pickup in business activity during the week, although in general it was not of great proportions. Inquiries were reported holding to a fairly high level and sales were steady, if not booming.

The general opinion was that prices were due for a rise shortly. A stronger tendency had been noted among several of the more important items, such as lemongrass, citronella and the mints, for the past several weeks, and well informed sources said they would probably continue stronger, at least in the immediate future.

Smaller orders continued at a good rate during the week, but the supply houses were watching for the bigger ones, which they felt should be coming along at any time now. The reason was that the inventories of most volume buyers had been allowed to run quite low and were in need of immediate replenishing.

One of the larger aromatics suppliers during the week pointed out, in a 10-year survey, that many prices had declined in the last decade and that such declines, despite the general inflationary trends in American prices, were a reflection of efforts in research and product development.

"It is significant that prices of most aromatics derived from coal-tar have remained either constant or have actually been lowered in the last 10 years. Other synthetics, principally derivatives of imported essential oils, are higher in price as a result of scarcities and higher production costs in the country of origin," it was said.

Market Trends

Prices Advanced

Lemongrass oil, 10c. per lb.
Mandarin oil, Italian, 50c. per lb.
Peppermint oil, natural, 20c. per lb.
redistilled, USP, 25c. per lb.

Prices Reduced

None

Comparative Price Indexes

(1930=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
152.7	151.9	150.4	221.4

(For Current Prices see Page 9)

Essential Oils

Bay—The West Indian, 50-55 percent oil, continued to be in good demand last week, especially from cosmetics and toiletries manufacturers. Supplies were not at an exceptionally high level, but were adequate to accommodate ordinary buying. The inside price of $1.20 showed no change during the period although the outside figure advanced from $1.65 to $1.95.

Bois de Rose—The Brazilian oil was selling on the New York market last week at $3 to $4 a pound, despite reports that come March 1 the prices were likely to advance considerably. It was said that on that date the price of the oil would be fixed at $3 f.o.b. Brazil, and that therefore suppliers here would be obliged to advance their prices. An executive in one of the larger New York houses, however, was inclined to discount a part of these reports and take a "wait and see" attitude rather than accept them immediately. Late last summer similar reports had circulated through the trade, but nothing came of them and some of the larger houses in New York, which keep their ears closely tuned to the Brazilian market, were of the opinion that the present reports might not materialize either.

Camphor—Two hundred drums of this oil reached the New York market last week from Kobe, Japan, but otherwise the product was in a quiet position.

Cassia—The USP again held to its steady position on price last week, after going through a period of fluctuation several weeks back. The only item of interest was the arrival in New York of 30 drums of the oil from Hong Kong. The price range was $2.60 to $3.75.

Citronella—Seventy-four drums of oil reached New York last week from Singapore and Guatemala, but otherwise there was no particular activity shown in the market for either the Ceylon or Java oils. The Ceylon was being quoted at 90c. to $2.75 and the Java at $1.70 to $4.75. Both oils showed an inclination to strengthen on price, and suppliers in New York were none too sure what prices might be in the near future.

Clove—There was little to note regarding the market for this oil in New York during the past week except the arrival of 78 barrels and 23 casks of the product from Madagascar. Prices continued unchanged at $1.30 to $1.70.

Dillseed—This item was almost impossible to obtain on the New York market last week, and some of the larger houses, which had been reporting at least moderate stocks on hand, stated during the period under review that they were completely out of supply. The oil was being quoted at $7.50 to $8.25, but it was availability and not price that was commanding the attention of consumers.

Dillweed—This oil was being quoted at $7.75 to $8.50 on the New York market last week, but like the seed oil, it was its availability and not its price that was coming in for attention. The oil had been in short supply all through the pickling season and since there could be no new supplies until late next summer, there was nothing much left but job lots, and they were going at high prices. The only fortunate aspect of the situation regarding this oil was the fact that most heavy consumers had been forewarned of the shortage and had laid in supplies adequate to carry them through to the next crop.

Lemongrass—As had been indicated for some weeks, this oil was in a strengthening position and last week continued its upward climb with an increase of 10c. per pound. The new quotation was $1.65 on the inside of the range, although the outside remained firm at $2.30. The Indian political situation, as well as the return to the market of European buyers were seen as two reasons for a strengthening of price on this item. Most of the larger New York houses were of the opinion that the oil might continue advancing until the new crop season begins next month. One drum reached New York last week from Puerto Barrios, Guatemala.

Lime—Thirty-three cases of this oil reached New York during the period under review from Montevideo, Uruguay, but otherwise the market was without special feature. The distilled Mexican product was being sold at $3.75 to $5.05; the West Indian was going for $4.25 to $6.30; the expressed West Indian was bringing between $9.50 and $11.75 and the terpeneless was being quoted at $35 to $43.

Mandarin—The Italian oil went up in price by 50c. a pound on the inside of the range last week, to establish a new inside quotation of $9 a pound, and the outside also advanced from $10 to $12. Supplies were ample to meet all current demands and from time to time satisfactory shipments were reported arriving in this country. The spread in price was a result of the varying quality of the oil. Some was still of a poor grade but for the most part the oil had improved considerably during the past month or more and was beginning to regain its old and respected place on the market in this country. The Brazilian oil was unchanged as to price last week, still being quoted at $5.75 to $8.40. One drum of oil reached New York last week from Buenos Aires.

Olibanum—This oil was in a quiet position on the New York market last week and continued to be listed at the old quotations of $4.50 to $6.25. The extra fine was going

Bois de Rose, Lignaloe Oil Imports: 1945-46

Quantity in pounds; value in dollars

Country of origin	1945 Quantity	1945 Value	1946 Quantity	1946 Value
Brazil	78,240	330,687	484,804	1,971,336
French Guiana	3,606	16,266	.....	.....
Mexico	91,371	352,278	68,181	282,315
Others	.....	.....	562	1,049
Total	173,397	699,231	553,547	2,254,700

For Late Market Developments, See Page 4

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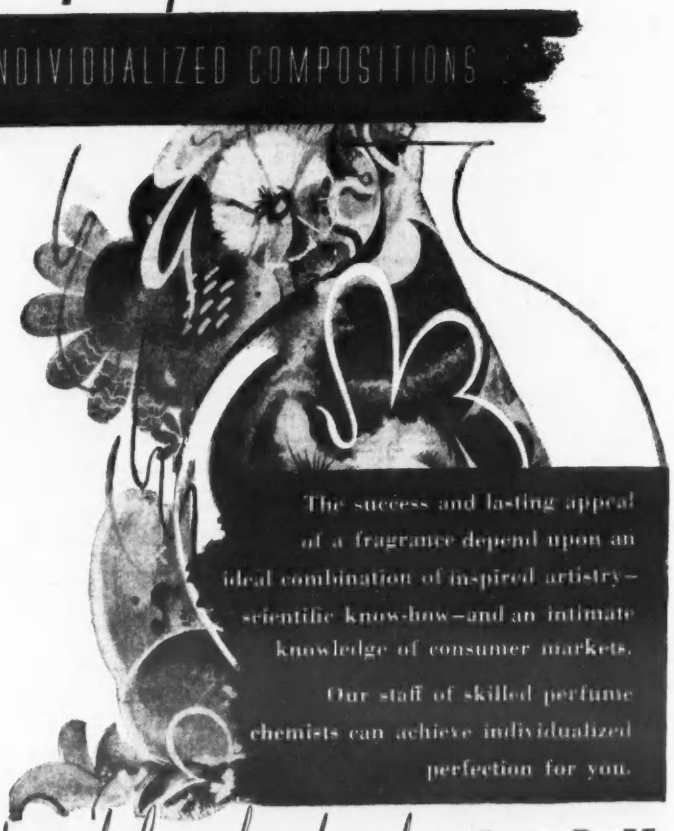

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at from $6.25 to $10.50. The supply and demand picture was largely unchanged.

Peppermint—The fact that this oil was being held in strong hands was reflected on the New York market last week when the natural advanced from $7.55 to $7.75 a pound on the inside of the range. The redistilled USP also went up in price, climbing from $8.25 to $8.50. It was still difficult for supply houses in New York to determine just how much of the product was being held in the country, but it was estimated that there was enough of it available to satisfy the market but that the farmers were in a position where they could hold out in an attempt to force the market up. They seemed to be in no particular hurry to sell, and demand was good and showed no signs of slacking off.

Petitgrain—Sixty drums and 25 cases of this oil reached the New York market last week from Buenos Aires, but otherwise the market was quiet and quotations remained unchanged at $3.15 to $4.30. The oil was reported to be in good demand and there were sufficient supplies of it available to satisfy all normal ordering.

Pimento—Seven drums of the leaf oil came into New York last week from Kingston, Jamaica, but otherwise there was little activity on the market for either the leaf or berry oils. The supply and demand situations remained about the same. The leaf was unchanged at the old price of $1.75 to $3.25 and the berry was still bringing between $4.25 and $6.50.

Pineneedle—The market for the various oils remained quiet last week, both as to price and the supply and demand picture. The Canadian was selling at $2.20 a pound on the inside of the range, with no figures available for the outside. The Siberian was listed at $3.05 to $3.75, but was in tight supply. The Swiss showed no change from the old quotations of $4 to $14.50.

Rose—There was little of note regarding this product last week on the market in New York. The natural, in coppers, was still being quoted at $16 to $40.50, a range at which it had been for some time.

Sassafras—Both the artificial and domestic oils were in a quiet position last week on the market in New York. The former showed no change from the previous quotations of 80c. to $1.25, and the domestic USP, XIII, was still listed at $1.90 to $2.30.

Savory—This oil was being quoted at $8 a pound on the inside of the range last week in New York, a figure at which it had been for some time. There were still no figures available for the outside of the range.

Snakeroot—This oil, of Canadian origin, was unchanged at the old price range of $17.50 to $21 last week on the New York market, and the supply and demand situations remained largely what they had been for some weeks past.

Spearmint—Although reported to be held in strong hands, with a rising market possible, this oil was still in an unchanged position as to price on the market in New York last week. It was being quoted at $8.25 to $10. Demand was good and there were enough supplies available, although there was some doubt among supply houses as to just how much of the product remained in the country.

Aromatic Chemicals

Bromstyrol—The price range of $4.85 to $6.25 remained unchanged for this item during the period under review and supply and demand showed no considerable change either way.

Carvol—This item was in a quiet position on the New York market last week, with prices remaining where they had been for some time past and no considerable changes in either the supply or demand situations. The product was being quoted at $13 to $16.

Diphenyl Oxide—The price range for this item remained firm last week in New York and the supply and demand situations were largely unchanged. The product was still being sold at between 48c. and 61c. a pound.

Heliotropine—The crystals were in easy supply last week in New York, and demand was continuing at a fairly good pace, although it was reported that some of the supply houses still had considerable backlogs of the item on hand. The price range of $3.25 to $4 was unchanged during the period.

Methylheptin Carbonate—The price range of $37 to $58 was unchanged for this item during the period under review, and there were no considerable changes in the supply and demand pictures. There were ample supplies of the item available, in most cases, to take care of normal ordering. Demand was fairly good.

Octyl Alcohol—The market for this item was without particular interest in New York last week and the price quotations continued firm at the previous listing of $4 to $4.40.

Safrol—Demand for this item was light on the New York market last week, although supplies were at a good level, reflecting the easy availability of ocotea cymbarum. There was no change in the price range of 95c. to $1.45.

Givaudan-Delawanna Issues New Aromatics Catalog

Givaudan-Delawanna, Inc., essential oils and aromatics, New York, has published a new catalog entitled "A Symphony in Fragrance." The book is divided into five sections, covering synthetic aromatics, specialties, compositions, extraction products and cosmetics and pharmaceutical materials.

Considerable descriptive information on the odor and use of over 250 synthetics and an equal number of specialties is given, and a section of the catalog lists and describes almost 200 perfume oils or compositions specifically blended and recommended for various types of cosmetic products.

Perfumery imported into Madagascar during the first nine months of 1947 totaled 173,100 kilograms. Imports of ordinary soap in the same period amounted to 28,900 kilograms.

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Brown Instrument Company Opens Two Sales Offices

Brown Instrument Company, division of the Minneapolis-Honeywell Regulator Company, has established sales offices in Denver, Colo., and Salt Lake City, Utah. The Denver office, located at 400 Broadway, will be under the direction of Donald Larcen and will serve Colorado, Wyoming and Western Nebraska. The Salt Lake City office, at 36½ West Second South, will be directed by Eldon Richardson and will cover Utah, Southern Idaho and Western Nevada.

Plant Science Lecture At Brooklyn Botanic Garden

Progress in research with chemicals which work within plants to rid them of disease will be the subject of the second in the Brooklyn Botanic Garden's lecture series entitled "Plant Science Advancing." The lecture, entitled "Internal Medicine for Trees," will be presented tomorrow at 8 p.m. by Dr. James G. Horsfall in the administration building of the garden, 1000 Washington avenue.

Toiletries Tax Rate Revised by Hong Kong

The rate of duty collected on proprietary medicines or toilet preparations imported into, of manufactured in Hong Kong has been changed. The new rate is 25 percent of the f.o.b. cost for imported commodities and 25 percent of the ex-factory cost for those manufactured locally. The duty formerly had been assessed on the retail price.

Colombia Drug Registration Law Held Unconstitutional

The Supreme Court of Colombia has ruled that decree 0750, of February 28, 1947, regulating the registration of pharmaceuticals, is unconstitutional in all of its major provisions, and that it no longer has any practical bearing on pharmaceutical registrations.

During the time that the Supreme Court was considering the case against decree 0750, the Ministry of Hygiene issued decree 2713 regulating the procedure for applying for licenses covering medicaments, foodstuffs and cosmetics. Decree 2713 was intended to modify decree 0750, but with the demise of the latter decree becomes the basic legislation for the registration of medicaments, foodstuffs and cosmetics.

The American Republics Division, Office of Internatidnal Trade, U. S. Department of Commerce, is currently preparing a revision of the publication "Colombia-Pharmaceutical Regulations," which appeared in volume five, part two, number sixty-one of its Industrial Reference Service.

Palestine Imposes Permit Restriction on Imports

The Office of the Postmaster, New York, has announced that information has been received from Palestine that all goods imported for commercial purposes into that country now require an import permit to be produced by the addressee, regardless of value.

Legion Export, Import Company Organized in New York

Legion Export & Import Company has been formed in New York to deal in chemicals, food and oils. Peter S. Raho is president of the new company, which has its headquarters at 261 West Fifteenth street, New York 11. Telephone number is CHelsea 3-8182.

Owens-Illinois Shifts Plant

Owens-Illinois Glass Company, Toledo, Ohio, has completed transfer of operations of its closure and plastics plant from Toledo to St. Charles, Ill. Production has been resumed at the new plant which was purchased from War Assets Administration last March.

Hunzikers, Inc., Moves

Hunzikers, Inc., importer and dealer in vanilla beans and essential oils, Chicago, have moved to larger quarters at 461 West Erie street.

Trade Briefs

Essential oil imports into Costa Rica during 1946 amounted to 2,212 kilograms, valued at $17,185.

Coty, Inc., cosmetics manufacturer, New York, has developed a new make-up base which it calls "Pastel-Tint."

Al C. Genta has been appointed sales manager of the Eastern division of Chase Candy Company, St. Louis, Mo.

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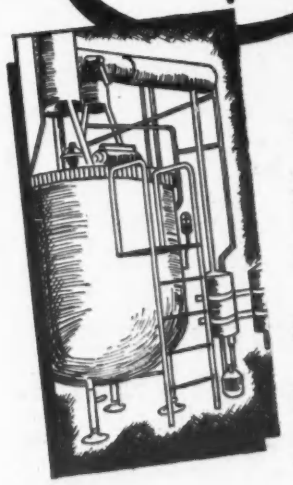
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All grades of INDONEX Plasticizers are compatible with a wide range of resins including various phenolics, modified phenolics, alkyds, acrylates, polyamides, cellulose derivatives, coal tar and petroleum resins, polystyrenes, rosin derivatives, and waxes. Many diverse applications as plasticizers, modifiers, or extenders are indicated. (Circular 105.)

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INDONEX Plasticizers 633½, 634½, 638½ have found many applications in compounding of GR-S, Natural Rubber, Neoprene, Butyl and Acrylonitrile Copolymers. (Bulletin 13 and special circulars.)

Grade	633½	634½	638½	VG
Color	Dark	Dark	Dark	Medium
Flash °F.	450	460	510	460
Pour °F.	35	40	70	20
Viscosity 210°F., Saybolt sec.	110	125	510	103
Evap. Loss mg/10g (1 hr. 100°C.)	5	5	3	4

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Protective Coatings Materials

Although pigments were firm in the main, price fluctuations were noted for a variety of other protective coatings materials last week, among them oleates, certain grades of shellac and casein.

The supply position of white pigments continued tight during the week, as a leading maker of zinc oxides effected previously-announced 1½ cents per pound increases on U.S.P., French process green, red and white seal materials. Lead pigment manufacturers were still reported to be facing strong competitive bidding for pig lead stocks from other users of that raw material. No improvement in the titanium dioxide situation was noted, and zinc oxide suppliers continued making quota-basis deliveries.

Because of what he called higher raw materials, containers and transportation costs, a leading synthetic resins manufacturer announced a series of advances on a variety of materials. Alkyd resins were increased ¾ cent to 3¼ cents per pound; maleics went up 1 cent to 1½ cents per pound; melamines were boosted 3½ cents to 4 cents per pound; phenolics jumped ¼ cent to 3 cents per pound, and urea-formaldehyde resins were hiked 2½ cents to 4¼ cents per pound. Natural resins, at the same time, were firm in a quiet market.

Dimethyl phthalate advanced 2½ cents to 2¾ cents per pound during the week, and a leading maker of diethyl phthalate and tricresyl phosphate met higher competitive quotations. Sebacates continued firm, as supplies remained scarce.

Reduced buying in the Argentine depressed the market in imported casein ½ cent per pound, while the domestic product continued short and firm. Oleates were upped 2 cents to 3 cents per pound by major producers. In the shellac market, furthering stiffening produced 1 cent per pound increases for bleached, bonedry and refined grades. Superfine and TN lacs, at the same time, went up 4 cents and 2 cents, respectively.

Market Trends

Prices Advanced

Aluminum oleate, 3c. per lb.
Ammonium oleate, 2c. per lb.
Copper oleate, solid, 10% Cu, 2¾c. per lb.
Dimethyl phthalate, 2½c. to 2¾c. per lb.
Lead oleate, 2½c. per lb.
Magnesium oleate, 3c. per lb.
Manganese oleate, 3c. per lb.
Shellac, bleached, bonedry, 1c. per lb.
refined, 1c. per lb.
Superfine, 4c. per lb.
TN, 2c. per lb.

Prices Reduced

Casein, imp., acid-precip., ½c. per lb.

Comparative Price Indexes

(1926=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
182.2	182.2	182.2	172.0

(For Current Prices see Page 9)

Prime Pigments

Antimony Oxide—Supplies of this pigment continued good last week, as demand was reported fair. Prices held fast at previous levels. The ceramic grade in carloads was quoted at 27c. to 27½c. per pound, delivered, while less carlots commanded 27⅜c. to 28½c. per pound, same basis. The paint grade in carloads was listed at 27½c. to 31c. per pound, works, while l.c.l. shipments were priced at 28¼c. to 32¾c. per pound, same basis.

Black Acetylene — This pigment was quoted at 13½c. per pound in carloads, f.o.b. works, last week. Less-carlot quantities ranged in price from 17c. to 18c. per pound, f.o.b. shipment point.

Black, Bone—Quotations on this material last week ranged with grade from 14⅜c. to 22⅜c. per pound in bags or barrels, less carloads, delivered. Carload shipments, which are made to only a few customers, were quoted at ½c. per pound under the above range.

Black, Lamp—Prices last week were quoted at a range of 7c. to 30c. per pound in bags, carloads, f.o.b. works. Supply and demand conditions, at the same time, were reported to be on a par with levels of previous weeks.

Iron Oxides—The supply position of these pigments was virtually unchanged during the week. Synthetic red oxides continued good, but both Spanish and Persian Gulf oxides remained severely short. Suppliers of the latter pigments attributed the shortages mainly to the unduly high prices asked by Spanish producers and the shipping bottleneck. Prices during the week were stable. Meanwhile, it was reported from Rumania that ferric oxide, commonly known as Phoenician red, has been extracted from ores in the Baia Mare region of that country.

Lead Pigments—Owing mainly to the continuance of heavy buying pressure, leading producers of these materials have reported difficulty in building up stocks. Previously it had been customary for lead pigment manufacturers to build up their supplies during the Winter months when painting operations are largely suspended. This year, however, the demand has been said to be so active that manufacturers have not been able to add any substantial amounts to their stockpiles. Meanwhile, pig lead stocks were still reported to be dwindling, with pigment manufacturers continuing to face stiff competitive bidding for the raw material from other users. The price structure last week stood firm, maintaining levels that were on a par with those of previous weeks.

Titanium Pigments—No betterment in the supply position of these materials was reported during the past week. Stocks continued short and demand was still said to be very heavy. Prices were firm following the recent stabilization at higher levels.

Zinc Oxides — Previously-announced increases of 1½c. per pound were effected on U.S.P., French process green, red and white seal grades last week by a leading maker. Other manufacturers held at previous quotations, resulting in a range for these products. Supply-wise all zinc oxides continued tight, with major producers continuing to apply allocation plans of one form or another. Quotations of the affected grades follow:—French process green seal, carloads, 11¾c. to 13¼c. per pound; green seal, l.c.l., 12c. to 13½c.; red seal, carloads, 11¼c. to 12¾c.; red seal, l.c.l., 11½c. to 13c.; white seal, carloads, 12¼c. to 13¾c.; white seal, l.c.l., 12½c. to 14c.; U.S.P., carloads, 13¼c. to 14¾c., and U.S.P., l.c.l., 13½c. to 15c.

Fillers and Extenders

Calcium Carbonate—No change in the market position of this material was noted last week, as supply, demand and prices all maintained levels of previous weeks. Imports during the week totaled 4,200 bags of whiting from Antwerp.

China Clay—Suppliers reported conditions in the market comparable with those of former weeks. Prices were firm. Supply and demand were unchanged.

Magnesium Silicate—Producers of domestic grades continued to report difficulty in making shipments. Orders were said to be on a six months' delivery basis. Prices were stable and demand was very heavy. In the imported market, sufficient quantities of Italian talc were reported available, and French talc, though slow in delivery, was said to be adequate to cover requirements. Price-wise, there was no change.

Synthetic Resins

Alkyd Resins—A leading maker of these materials last week announced increases ranging from ¾c. to 3¼c. per pound. The price advances, which followed ½c. to 1¼c. per pound boosts by another alkyd manufacturer last month, were attributed to higher costs of raw materials, containers and transportation. Other producers, for the time being, held firm at previous quotations.

Maleic Resins—Increases of 1c. to 1½c. per pound were effected by a major supplier last week, as supply and demand conditions held at former levels. Key bottleneck to all-out production of these materials was still said to be the persisting shortage of maleic anhydride. Major resins producers expected continuance of the short supply position of the anhydride despite the expected increase in production this year.

Melamine Resins — Announcement was made last week of 3½c. to 4c. per pound increases by a leading maker. This move, which was attributed to higher costs, followed price adjustments by another manufacturer recently.

Phenolic Resins—Increases effected by a major supplier last week ranged from a low of ¼c. to a high of 3c. per pound. The advances, which the maker said were induced by increased expenses, were not followed by other producers.

Urea-Formaldehyde Resins — A major source of these materials during the week

For Late Market Developments, See Page 4

Hundreds of your customers and as many potentials will be at the big annual dinner of the Drug, Chemical and Allied Trades Section of the New York Board of Trade, March 11. Don't miss them. Make your reservations early.

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THE MARK OF QUALITY

CROSBY DIPENTENE

A carefully refined terpene hydrocarbon, possessing exceptionally good solvent properties and designed for use in those products and processes which require a high quality Dipentene.

SPECIFICATIONS

	Max.	Min.	Typical Analysis
Specific Gravity 15.5C	0.855	0.845	0.852
Refractive Index 20C	1.477	1.472	1.474
Unpolymerized Residue	2.5%	.....	1.2%
ASTM Distillation			
Initial B. P.	.....	170C	170C
5%	.....	173C	174C
95%	185C	.....	182C

PROPERTIES

Solvent Power
Kauri Butanol: Approximately 70.
Aniline Point: Approximately 10C.
Mixed Aniline Point: (N-Heptane) Approximately 33C.
Flash Point: Approximately 118F (Open Cup).

USES

CROSBY DIPENTENE is used as a special thinner for paints and varnishes, especially as an anti-skinning agent, also as a solvent in reclaiming rubber, as a diluent in perfumes, solvent for certain insecticides, in the manufacture of polyterpenes, synthetic resins and other chemical products.

CROSBY CHEMICALS, INC.
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If you manufacture or are interested in the production of Shingle and other Wood Stains, it will be to your advantage to investigate low-cost Neville Shingle Stain Oils and Creosote Oils.

2-AN Light Stain Oil
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Excellent vehicles for pigmented light colored shingle stains (the 2-AN is the palest). Also for thinning low-cost high-baking japans.

#1 Creosote Oil

Meets American Wood-Preservers' Association No. 1 specifications.

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Specially refined creosote. It is suitable for brush and spray work as it contains no crystals above 4° C. Meets American Wood-Preservers' Association No. 24f specifications.

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SELECTED ORE—Low Viscosity, M. P. 270-280° F.—Uniform—Clean

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REFINED SELECTS—Various Melting points 270°—285° —300°—310° F.

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AGENTS AND WAREHOUSE STOCKS IN PRINCIPAL CITIES

upped his entire line of products 2½c. to 4¼c. per pound. Higher operating costs were held responsible. Meanwhile, other makers held firm at former quotations.

Natural Resins

Importers continued to report maintenance of interest in Singapore No. 1 dammar gum and batu, nubs last week. In general, the market was said to be quiet, as quotations on all grades of natural gums remained at previous levels. Imports during the week totaled 2,170 bags of dammar from Singapore, 479 bags of copal gum from Manila and 100 cases of elemi from the same port of call.

Lacquer Materials

Phthalates — Demand for the dibutyl product was still said to be subnormal last week, as buyers were reported to be restricting purchases to quantities that would take care of their immediate requirements. According to one volume producer, this consumer resistance was due to an expected decline in the price of butyl alcohol. Meanwhile, quotations were firm. Diethyl phthalate, at the same time, continued at virtually the same price range following February 1 increases by a leading maker. Diethyl prices were quoted at 31½c. to 33½c. per pound, carloads; 32½c. to 34c. per pound, l.c.l., and 30c. to 32c. per pound, tanks. Dimethyl quotations, however, were upped 2½c. to 2¾c. per pound last week as previously announced increases were effected. Current quotations are 27½c. per pound, carloads, 28c. per pound, l.c.l., and 26c. per pound, tanks.

Sebacates—Supplies continued very short in this section, as demand continued active. A spokesman for a major producer said that on the basis of the current raw material situation, he could see no signs of easement in the near future. Meanwhile, the price structure remained firm. Dibutyl quotations were steady at 77¾c. to 79¼c. per pound, while dimethyl prices remained stable at 90c. to 91½c. per pound.

Tricresyl Phosphate — Quotations on the coaltar grade stabilized during the week following February 1 increases by a leading maker. Current quotations follow:—37½c. per pound, carloads; 38c. per pound, l.c.l., and 36c. per pound, tanks. The petroleum grade, that material made from petroleum-source cresylic acid, ranged from 37½c. to 39c. per pound.

Miscellaneous Materials

Asphaltum—Imports during the week totaled 900 bags of mineral asphalt from Havana. Market-wise, this section was stable, as supply, demand and prices all approximated previous levels.

Casein—Relaxation of buying in the Argentine compelled a ½c. per pound decline in the imported, acid-precipitated material during the week. Importers said that demand was good, but not sufficient to sustain prices. Supplies of imported material were unavailable on spot, with all current deliveries committed for several months ago. Some dealers in the New York market also reported increased inquiries from Europe, and there were indications that some sales had been transacted, despite the prevalent dollar shortage on that continent. Imported casein last week sold at 31c. to 32c. per pound, while the domestic product was firm at 33c. to 35c. per pound. Domestic casein was still said to be as scarce as ever, as powdered milk producers continued to furnish stiff competitive bidding for skim milk. Meanwhile, the Bureau of Agricultural Economics reported domestic casein production in December at 885,000 pounds, a drop of 63 percent under the 2,389,000 pounds manufactured in December, 1946. Stocks on hand on December 31 totaled 1,275,000 pounds, compared with 2,250,000 pounds on hand on December 31, 1946. Production of dry casein for 1947 totaled 31,333,000 pounds, however, a gain of 72 percent over the 18,257,000 pounds produced in 1946 and 16 percent above the 1941-1945 five-year average of 27,119,000 pounds. Casein production last year was the highest on record since 1942. Imports of casein from Buenos Aires last week were registered at 2,642 bags.

Glue—Imports last week totaled 14,358 bags from Karachi and Montevideo. In the market, prices were firm and supplies were tight, particularly for hide glues. Demand continued heavy.

Graphite—Imported during the week were 2,555 bags of this material from Tamatave. No change in the market position of this product was noted during the period under review.

Gypsum—Imports last week amounted to 9,805 tons from Hautsport. The market, meanwhile, showed no appreciable change from levels of previous weeks.

Oleates—Advances of 2c. to 3c. per pound were effected on the entire range of these materials last week, as supplies were reported ample and demand was said to be normal. Current oleate prices in barrels follow: Aluminum, 46¾c. per pound; ammonium, 34¼c. per pound; copper, liquid, 8.5 percent, 35¼c. per pound; copper, solid, 10 percent, 48½c. per pound; copper, solid, 12.7 percent, 47¼c. per pound; chromium, 54c. per pound; lead, 36c. per pound; magnesium, 43½c. per pound; manganese, 47¾c. per pound, and zinc, 45c. per pound.

Shellac—Continued strength in the New York market, reflecting unsettled conditions at the source, resulted in 1c. per pound increases for bleached, bonedry and refined lacs during the week. Superfine and TN grades went up 4c. and 2c. per pound, respectively.

Naval Stores

Dipentene—The steam-distilled material last week was quoted at 59c. per gallon, carloads, ex warehouse New York, and 53c. to 62c. per gallon, less carloads, same basis.

Pine Oil—Steam-distilled pine oil last week commanded 11c. per pound, ex warehouse New York, and 86c. per gallon, same basis. Supply and demand conditions were reported to be relatively at the same levels as previous weeks.

Rosin, Wood—Quotations on lower grades of this material widened last week, as a major producer lowered prices. Following

AZO ZINC OXIDES

ACICULAR ZINC OXIDES

ARE AVAILABLE IN A WIDE RANGE OF OIL ABSORPTIONS

AZO ZZZ-33
A definitely Acicular type with a lower oil absorption, but chemically identical with AZO ZZZ-11 and AZO ZZZ-22.

AZO ZZZ-11
A medium oil absorption Acicular Zinc Oxide imparting exceptional weathering qualities to exterior paints.

AZO ZZZ-22
A high oil absorption Zinc Oxide having large Acicular Particles gives heavy body, meets Navy Spec. 52-Z-7.

The extra durability, the finer weathering qualities that Acicular Zinc Oxide gives to paint can be obtained with AZO Acicular Zinc Oxides available in a wide range of oil absorptions to meet your requirements.

AMERICAN ZINC SALES CO., Distributors for AMERICAN ZINC, LEAD & SMELTING CO.

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are the current market quotations in carloads, drums, f.o.b. works: B, $3.50 to $5 per hundredweight; FF, $6 to $6.50; G, H and I, $8.30 to $8.90; K, $8.35 to $8.96; M, $8.40 to $8.95; N, $8.75 to $9.05; WG, $8.80 to $9.30; WW, $8.90 to $9.35, and X, $9.40.

Turpentine, Wood—Following are quotations on the steam-distilled grade: 58c. per gallon, carloads, f.o.b. South; 63c. to 75c. per gallon, l.c.l., ex warehouse New York, and 85c. to 50c. per gallon, tanks, f.o.b. South.

Gum rosin and gum turpentine on the Savannah market continued stable for the second consecutive week.

Savannah, Feb. 6.—Following is a record of the turpentine market for the week:—

	Bulk, gallons— Cents.	Sales.	Barrels— Receipts.	Shipments.	On hand.
Monday	62	...	935	772	10,186
Tuesday	63	...	...	...	10,186
Wednesday	63	...	...	128	10,058
Thursday	63	...	62	14	10,106
Friday	63	...	22	...	10,128

Savannah, Feb. 6.—Following is a record of the rosin market for the week:—

	Price per unit— Low of range quoted Mon.	Tues.	Wed.	Thurs.	Fri.
B	$6.50	$6.50	$6.50	$6.50	$6.50
D	8.00	8.00	8.00	8.00	8.00
E	8.80	8.80	8.80	8.80	8.80
F	8.81	8.81	8.81	8.81	8.81
G	8.81	8.81	8.81	8.81	8.81
H	8.81	8.81	8.81	8.81	8.81
I	8.81	8.81	8.81	8.81	8.81
K	8.85	8.85	8.85	8.85	8.85
M	8.89	8.89	8.89	8.89	8.89
N	9.05	9.05	9.05	9.05	9.05
WG	9.35	9.35	9.35	9.35	9.35
WW	9.48	9.48	9.48	9.48	9.48
X	9.48	9.48	9.48	9.48	9.48
	Barrels—				
Sales	100	...	100	...	...
Receipts	850	43	51	...	64
Shipments	2,061	160	191	...	300
Stocks	9,192	9,135	8,995	8,995	8,759

Pitts Paint Technicians Discuss Styrenated Oils

A prediction that styrenes would become major factors in the protective coatings industry was voiced by N. R. Peterson, of the Dow Chemical Company, at a meeting of the Pittsburgh Paint and Varnish Production Club held at the Fort Pitt hotel on February 2.

Mr. Peterson referred to three groups of coatings, phenolics, alkyds and nitrocellulose types, and said that styrenes would make a fourth major group. He substantiated this by citing the cost, availability, and the favorable properties of this material as compared with others. Mr. Peterson also presented samples of the various styrenated oils such as linseed, tung and soya, both in clear and pigmented forms.

Speco Develops New Heat Resisting Paint

Speco, Inc., Cleveland, has developed a new high-heat resisting aluminum paint, which it calls "Heatrem." It is made specifically for use on exterior and interior metal surfaces where temperatures reach 1,500 deg. F., or any wood, brick or concrete surfaces exposed to extreme heat.

According to the manufacturer, "Heatrem" actually fuses with metal surfaces to form a permanently bright, elastic finish that resists moisture, corrosion, acids, alkalis and industrial fumes. It is reputed to set up in four hours and dry completely overnight. Further information may be obtained from the company at 3142 Superior avenue, Cleveland 14, Ohio.

Twin Cities Paint Club Hears 'Atomic Age' Discussed

Members of the Minneapolis-St. Paul Paint, Varnish & Lacquer Association heard York Langdon, chairman of the Minnesota United Nations Committee, speak on "United Nations in the Atomic Age," at a recent meeting of the association. Mr. Langdon discussed the provisions of the United Nations charter and stressed the necessity of avoiding atomic warfare.

CDIC Paint Club To Meet Tonight

The Cincinnati, Dayton, Indianapolis, Columbus Paint and Varnish Production Club will meet at 6:30 p.m. tonight at the Cincinnati Club. Featured speaker will be Charles O'Connor, of the Reichhold Chemical Company, and the membership of the Cincinnati Paint, Varnish and Lacquer Association has been invited to attend.

Blatz Paint & Varnish Elects Luckett President

Blatz Paint & Varnish Company, Louisville, Ky., has elected Charles G. Luckett president, to succeed the late R. V. Board. Mr. Luckett joined the company in 1916, and was named its secretary in 1923 after several years of sales work. In 1941 he was elected vice-president of the company, a position he has held until the present.

Filo Color & Chemical Changes Offices, 'Phone Number

Filo Color & Chemical Corporation has moved its offices from 406 Greenwich street, New York 13, to Eleven Broadway, New York 4. Telephone number at the company's new location is Digby 4-3162.

WOBURN PRODUCTS

MANY new and important advancements have been made in the use and application of Fatty Acids. Woburn has for many years been recognized for its leadership in this field. This has been achieved through our close relations with users of organic chemicals and those who supply us with materials from which our products are manufactured.

In keeping with this spirit of co-operation, we have prepared a series of technical bulletins providing factual information describing the properties, uses and similar vital data concerning fatty acids, synthetic drying oils and other important organic chemicals. We will be happy to send you a complete set of these informative pamphlets. Address request on your letterhead to the attention of Our Public Relations Department.

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SYNTHETIC DRYING OILS and
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. . . that have great tinctorial strength, low oil absorption, color brilliance, true uniformity and easy grinding qualities unmatched today.

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From a laboratory test run in a customer's plant on our siennas. Look at the time saved in grinding with our superior pigments.

BURNT SIENNAS
1. Their standard . . . 93 hours
2. Our M1653 . . . . 46 hours
3. Our M1870 . . . . 70 hours

RAW SIENNAS
1. Their standard . . . 72 hours
2. Our M1581 . . . . . 44 hours

PROOF POSITIVE
that MORE PROFITS go hand in hand with MINERAL PIGMENTS

MINERAL PIGMENTS CORPORATION
MUIRKIRK • MARYLAND

NOW! better solubility and improved stability for lead driers
plus lighter color

with Ferro's new
4% calcium naphthenate

You can actually see the difference. Yes, Ferro's new, "A" Viscosity 4% Calcium Naphthenate offers all three advantages for faster, easier blending with other ingredients — without changing the metal present in concentrated form, without modifying it in any way.

May we send you samples and more complete information about this better "A" Viscosity drier?

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UNION COMMERCE BLDG. • CLEVELAND 14, OHIO

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25 bls, China Mutual Trading Co, Whirlwind, Kobe
125 bls, Mercantile Metal & Ore Corp, Whirlwind, Kobe
25 bls, Import & Export Industries, Inc, Whirlwind, Kobe
67 bls, T M Duche & Sons, Whirlwind, Kobe
100 bls, R Hilliers Sons Corp, Whirlwind, Kobe
125 bls, R J Prentiss & Co, Whirlwind, Kobe
50 bls, Roswin Import & Export Co, Whirlwind, Kobe
575 bls, S B Penick & Co, Whirlwind, Kobe

AMBRETTE SEED—20 bgs, S B Penick & Co, Toltec, Cristobal

AMMONIUM CARBONATE, POWDERED—30 cs, American British Chemical Supplies, Inishowen Head, Glasgow

ANISE—2.0 tons, Wm M Allison & Co, Whirlwind, Hongkong
400 bgs, ... E Martin & Co, Whirlwind, Hongkong

ANTIMONY ORE—1,555 bgs, Philipp Bros, Inc, Santa Rita, Arica
1,520 bgs, Associated Metals & Mineral Corp, Santa Rita, Arica
REGULUS—5,250 cs, Treasury Dept, Whirlwind, Shanghai

ARGOLS—700 bgs, National City Bank, Exiria, Bari

ARSENIC—83 bbls, The C ri Dodge Co, Mormacmail, Gothenburg

ASPHALT, MINERAL—900 bgs, Allied Asphalt & Mineral Corp, Cape Race, Havana

BARASSU KERNELS—3,333 bgs, E F Drew & Co, Sussex Trader, Parnahyba
1,666 bgs, Spencer Kellogg & Sons, Sussex Trader, Parnahyba
1,668 bgs, General Foods Corp, Sussex Trader, Parnahyba
3,333 bgs, General Foods Corp, Sheridan, Parnaiba

BARLASCO ROOT—1,884 bls, Hecht, Levis & Kahn, Sussex Trader, Para
335 bls, Sussex Trader, Iquitos

BEES WAX—37 bgs, R E Behlinger Co, Triton, Port au Prince
33 bgs, Carlos Arnoldson & Co, Cape Race, Havana
25 bgs, Guaranty Trust Co, Cape Race, Havana
9 bgs, General Import Dist Co, Cape Race, Havana
45 bgs, M Rothschild & Co, Cape Race, Havana
21 bgs, Poons Co, Emilia, Ciudad Trujillo
18 bgs, Irving Trust Co, Emilia, Ciudad Trujillo
43 bgs, H H Pike & Co, Emilia, Ciudad Trujillo
140 pkgs, Will & Baumer Candle Co, Flying Arrow, Alexandria

BENZOIN GUM—8 cs, S B Penick & Co, Iraq Victory, Singapore

BONES—7,672 bgs, Baugh & Sons, Mormacreed, Montevideo

CAMPHOR OIL—125 dms, Orbis Products Corp, Whirlwind, Kobe
50 dms, Ungerer & Co, Whirlwind, Kobe
25 dms, R J Prentiss & Co, Whirlwind, Kobe

CARAWAY SEED—100 bgs, Catz American Co, Gainsville Victory, Rotterdam
100 bgs, R L Friedler, Inc, Southland, Rotterdam
100 bgs, R L Friedler, Inc, Trinidad, Rotterdam

CARNAUBA WAX—189 bgs, W R Grace & Co, Sheridan, Parnaiba
63 bgs, Innis, Speiden & Co, Sheridan, Parnaiba
204 bgs, Cornelius Products Co, Sheridan, Parnaiba
144 bgs, Wessel, Duval & Co, Sheridan, Parnaiba
101 bgs, Wm Diehl & Co, Sheridan, Parnaiba
56 bgs, Wm M Allison & Co, Sussex Trader, Fortaleza
313 bgs, Chase National Bank, Sussex Trader, Fortaleza
188 bgs, Wessel, Duval & Co, Sussex Trader, Fortaleza
110 bgs, W R Grace & Co, Sussex Trader, Fortaleza
55 bgs, Wessel, Duval & Co, Sussex Trader, Camocim
580 bgs, S C Johnson & Son, Sussex Trader, Camocim
125 bgs, George Degen & Co, Sussex Trader, Parnaiba
125 bgs, G S Ziegler & Co, Sussex Trader, Parnaiba
63 ... Marcel Kurtz Corp, Sussex Trader, Parnaiba
38 ... Cornelius Products Co, Sussex Trader, Parnaiba
13 bgs, Stein, Hall & Co, Sussex Trader, Parnaiba
125 bgs, Chase National Bank, Sussex Trader, Parnaiba
438 bgs, S C Johnson & Son, Sussex Trader, Parnaiba
101 bgs, Wax & Rosin Products, Inc, Sussex Trader, Parnaiba
126 bgs, Wessel, Duval & Co, Sussex Trader, Parnaiba
164 ... W R Grace & Co, Sussex Trader, Parnaiba
63 bgs, Innis, Speiden & Co, Sussex Trader, Parnaiba
13 bgs, General Wax & Refining Co, Sussex Trader, Parnaiba
125 bgs, Wax & Rosin Products, Inc, Sheridan, Parnaiba
134 bgs, Smith & Nichols, Loide Chile, Bahia

CASEIN—1,042 bgs, Paul & Stein Bros, Mormacreed, Buenos Aires
1,000 bgs, American Cyanamid Co, Mormacreed, Buenos Aires

CASHEW SHELL LIQUID—100 dms, Irvington Varnish & Insulator Co, Sussex Trader, Fortaleza

CASSIA—200 bls, Mincing Trading Corp, Mindoro, Hongkong
200 bls, Otto Gerdau Co, Mindoro, Hongkong
100 bls, Archibald & Kendall, Iraq Victory, Shanghai
100 bls, Archibald & Kendall, Iraq Victory, Hongkong
150 bls, Volkart Bros, Whirlwind, Hongkong
1,080 bls, A G Dunn, Whirlwind, Hongkong
200 bls, Arnhold & Co, Whirlwind, Hongkong
100 bls, Wm M Allison & Co, Whirlwind, Hongkong

OIL—5 dms, Orbis Products Corp, Mindaro, Hongkong
5 dms, Gen Uhe Co, Whirlwind, Hongkong
5 dms, J D Walsh, Whirlwind, Hongkong
10 dms, A G Calller, Whirlwind, Hongkong
10 dms, Dodge & Olcott Co, Whirlwind, Hongkong

CASSAVAMEAL—18,000 bgs, Wedeman & Godenecht, Loide Cuba, Rio de Janeiro

CASTOR BEANS—1,709 bgs, Sherwin Williams & Co, Loide Chile, Recife
4,200 bgs, Baker Castor Oil Co, Loide Chile, Recife
1,094 bgs, Spencer Kellogg & Sons, Loide Chile, Recife
19,021 bgs, Baker Castor Oil Co, Loide Cuba, Santos
4,258 bgs, Spencer Kellogg & Sons, Loide Cuba, Santos
398 bgs, Chase National Bank, Bresie, Port au Prince
1,667 bgs, Baker Castor Oil Co, Sussex Trader, Bahia
2,540 bgs, Baker Castor Oil Co, Sussex Trader, Pernambuco
3,922 bgs, Baker Castor Oil Co, Sussex Trader, Camocim
4,000 bgs, Baker Castor Oil Co, Loide Chile, Macelo
1,667 bgs, Baker Castor Oil Co, Loide Chile, Bahia
1,700 bgs, Spencer Kellogg & Sons, Loide Chile, Bahia

CASTOR OIL—398 dms, L N Jackson & Co, Sussex Trader, Fortaleza

CHILLIES—224 bgs, Otto Gerdau Co, Whirlwind, Kobe

CHOLIC ACID—15 cs, Van Gelder Fanto Corp, Mormacreed, Montevideo

CITRONELLA OIL—6 dms, Givaudar-Delawanna, Iraq Victory, Singapore
1 dm, Fruit Dispatch Co, Spar Hitch, Puerto Barrios
25 dms, New York Trust Co, Spar Hitch, Puerto Barrios
17 dms, H A Miner R Keilhauer, Spar Hitch, Puerto Barrios
25 dms, Spar Hitch, Puerto Barrios

CLOVE OIL—78 bbls, Norda Essential Oil & Chemical Co, Hibbing Victory, Tamatave
25 cks, Madagascar Agencies, Hibbing Victory, Tamatave

CLOVES—200 bls, Ungerer & Co, Hibbing Victory, Tamatave
803 bls, Hibbing Victory, Tamatave

COBALT OXIDE—143 cks, African Metal Corp, Bastogne, Antwerp

COCONUT OIL—440 tons, Procter & Gamble, Doctor Lykes, Cebu
273 dms, Pavia Co, Iraq Victory, Marseilles

COD OIL—52 cks, F W Damon, Fort Amherst, St Johns
8 dms, F W Damon, Fort Amherst, St Johns
38 dms, C A Andres, Fort Amherst, St Johns
10 bbls, C A Andres, Fort Amherst, St Johns

COLCHICUM SEED—3 bgs, Inland Alkaloid Co, Iraq Victory, Marseilles

COPAL GUM—285 bgs, O G Innes Corp, Whirlwind, Manila
120 bgs, W H Scheel, Inc, Whirlwind, Manila
74 bgs, France, Campbell & Darling, Whirlwind, Manila

COTTON LINTERS—122 bls, New England Waste Co, Lodie Cuba, Santos

CRACKED WAX DISTILLATE—14 dms, Asiatic Petroleum Corp, American Exporter, Liverpool

CREAM OF TARTAR—100 bgs, F H Toussig, Iraq Victory, Marseilles

CRESYLIC ACID—50 dms, Republic Chemical Corp, American Exporter, Manchester
200 dms, American Cyanamid Co, American Exporter, Liverpool
65 dms, Crowley Tar Product Co, American Exporter, Liverpool
36 dms, American Exporter, Manchester
310 dms, American Exporter, Liverpool

CROCIDOLITE ORE 1,100 bbls, Otto Ireland, Great Falls Victory, Durban

DAMMAR GUM—1,950 bgs, O G Innes Corp, Iraq Victory, Singapore
210 bgs, Gillespie-Rogers-Pyatt Co, Iraq Victory, Singapore

DILLSEED—240 bgs, Morris J Golombeck, Inc, Iraq Victory, Bombay
106 bgs, Louis Firth, Inc, Iraq Victory, Bombay

DRAGON BLOOD—21 cs, E Miltenberg, Inc, Iraq Victory, Singapore

ELEMI GUM—100 cs, O G Innes Corp, Whirlwind, Manila

ESSENTIAL OIL—5 cs, Queen Elizabeth, Southampton
1 cs, Geo Lueders & Co, Santa Isabel, Valparaiso
1 dm, Bush Aromatics, Iraq Victory, Marseilles
2 dms, Brown Bros-Harriman Co, Iraq Victory, Marseilles
1 cs, Tombarel Products Corp, Iraq Victory, Marseilles
1 dm, Tombarel Products Corp, Iraq Victory, Marseilles

EUCALYPTUS WOOD EXTRACT—6,267 tons, Judson Sheldon Corp, American Flyer, Fremantle

FISH LIVERS—4 bbls, Pablo Calvet & Co, Santa Isabel, Puna

FLAXSEED HUSK—266 bgs, T M Duche & Sons, Iraq Victory, Bombay
812 bgs, S B Penick & Co, Iraq Victory, Bombay
50 bgs, R J Prentiss & Co, Iraq Victory, Marseilles

FUEL OIL—10,000 bbls, Asiatic Petroleum Corp, Santa Paula, Curacao
95,000 bbls, Standard Oil Co N J, Esso Aruba, Aruba
95,000 bbls, Standard Oil Co N J, Esso Bolivar, Aruba
161,305 bbls, Gulf Oil Co, Gulfmills, Aruba
105,000 bbls, Standard Oil Co N J, J A Mowinckel, Aruba
162,885 bbls, Asiatic Petroleum Corp, Chiwawa, Curacao

GALL—9 bgs, Van Gelder Fanto Corp, Mormacreed, Buenos Aires

GELATIN SHEETS—25 cs, Coignet Chemical Co, Bastogne, Antwerp

GINGER—936 bgs, Barclay Bank, Fulani, Lagos
324 bgs, United Africa Co, Fulani, Lagos
32 bgs, McLaughlin, Gormley & King, Toltec, Kingston
60 bgs, Dodge & Olcott Co, Toltec, Kingston
114 bgs, Bank of Nova Scotia, Toltec, Kingston
51 bgs, Mincing Trading Corp, Toltec, Kingston
45 bgs, Archibald & Kendall, Toltec, Kingston
60 bgs, C T Wilson Co, Inc, Toltec, Kingston
66 bgs, Van Loan & Co, Toltec, Kingston
102 bgs, W E Martin Co, Toltec, Kingston

GLANDS—30 cnts, Eli Lilly & Co, Cape Race, Havana
2 cs, Parke, Davis & Co, Mormacreed, Buenos Aires

GLUE—3 bgs, Casein Co of America, Mormacreed, Buenos Aires
180 bgs, Ernest Seidelmann, Binghampton Victory, Santos

GLUESTOCK—46 bls, Dornstadt, Scott & Courtney, Binghampton Victory, Buenos Aires

GLYCERIN—30 dms, Reichhold Chemical Co, Mormacreed, Buenos Aires

GRAPHITE—900 bgs, Charles Pettinos, Hibbing Victory, Tamatave
255 bgs, Joseph Dixon Crucible Co, Hibbing Victory, Tamatave
1,000 bgs, Central Hanover Bank Trust Co, Robin Hood, Mozambique

GYPSUM—9,805 tons, United States Gypsum Co, Gyteman Prince, Bantsport

HERBS—32 bls, R J Prentiss & Co, Mormacreed, Buenos Aires

IPECAC ROOT—13 bgs, Rosing Bros & Co, Toltec, Cristobal

KARAYA GUM—133 bgs, Paul A Dunkel & Co, Iraq Victory, Bombay
228 bgs, Innis, Speiden & Co, Iraq Victory, Bombay
524 bgs, Stein, Hall & Co, Iraq Victory, Bombay
134 bgs, Wessel, Duval & Co, Iraq Victory, Bombay

KYANITE ORE—98 tons, East Asiatic Corp, American Flyer, Fremantle
487 tons, Philipp Bros, Inc, American Flyer, Fremantle

LEMONGRASS OIL—1 dm, Orbis Products Co, Spar Hitch, Puerto Barrios

LIME OIL—5 cks, La Curto & Funk, Mormacreed, Montevideo
28 cks, Barclay Bank, Mormacreed, Montevideo

LIVERMEAL—735 bgs, Weaver & Hugi, Mormacreed, Buenos Aires

LOCUST BEAN GUM—200 bgs, Paul A Dunkel & Co, Gainsville Victory, Rotterdam
200 bgs, Innis, Speiden & Co, Iraq Victory, Marseilles
100 bgs, T M Duche & Sons, Iraq Victory, Marseilles
50 bgs, Wm M Allison & Co, Iraq Victory, Marseilles

MAGNESIUM CARBONATE—300 bgs, Schofield, Donald Co, Inishowen Head, Glasgow

MAGNESIUM TRISILICATE—100 bgs, Schofield, Donald Co, Inishowen Head, Glasgow

MANDARIN OIL—1 dm, Geo Lueders & Co, Mormacreed, Buenos Aires

MANGROVE BARK—825 bgs, Manufacturers Trust Co, Robin Hood, Zanzibar
787 bgs, Walter Wilner Co, Robin Hood, Zanzibar
480 bgs, J Henry Schroeder Banking Corp, Robin Hood, Zanzibar

MARJORAM LEAVES—120 bgs, Alfred G Villagren, Santa Rita, Arica

MENTHOL—30 cs, Rosenthal, Bercow Co, Whirlwind, Kobe
10 cs, Paul A Dunkel & Co, Whirlwind, Kobe
10 cs, S B Penick & Co, Whirlwind, Kobe
46 cs, David Simon Bros, Whirlwind, Yokohama
10 cs, Vick Chemical Co, Whirlwind, Yokohama
46 cs, Consumers Import Co, Whirlwind, Yokohama
245 cs, Biddle, Sawyer Corp, Whirlwind, Yokohama
45 cs, R J Prentiss & Co, Whirlwind, Yokohama
10 cs, McKesson & Robbins, Whirlwind, Yokohama
10 cs, Orbis Products Corp, Whirlwind, Yokohama
12 cs, Pennsylvania Textile Corp, Whirlwind, Yokohama

MICA—140 cs, Ford Radio & Mica Corp, Bowrio, Rio de Janeiro
368 cs, Cosmopolitan Trading Corp, Bowrio, Rio de Janeiro
32 cs, Eugene Munsell & Co, Bowrio, Rio de Janeiro
14 cs, James F Gerneau Co, Bowrio, Rio de Janeiro
33 bgs, International Insulating Corp, Bowrio, Rio de Janeiro

MUSTARD SEED—400 bgs, A G Dunn, Gainsville Victory, Rotterdam
440 bgs, W E Martin Co, Mormacmail, Copenhagen

MYROBALANS—1,280 bgs, Vermilye Corp, Iraq Victory, Bombay

NAPHTHENIC ACID—1,083 bbls, Standard Oil Co N J, Esso Aruba, Aruba

NUTMEGS—40 cs, Falbish Corp, English Prince, Penang

OLIBANUM GUM—133 bgs, Walter Willner, Iraq Victory, Bombay

OLIVE OIL—51 dms, Chase National Bank, Exiria, Seville
50 dms, National Shawmut Bank, Exiria, Seville
100 dms, Chemical Bank & Trust Co, Exiria, Seville
50 dms, Public National Bank & Trust Co, Exiria, Seville
50 dms, Manufacturers Trust Co, Exiria, Seville
25 dms, Hellenic Bank & Trust Co, Exiria, Seville
50 dms, First National Bank, Exiria, Seville
25 dms, Bank of the Manhattan Co, Exiria, Seville
25 dms, Pan American Trust Co, Exiria, Seville
100 dms, Central Hanover Bank & Trust Co, Exiria, Seville
100 cs, Cia Sclafani, Iraq Victory, Marseilles
150 cs, Rinaldi Bros & Co, Iraq Victory, Marseilles
100 cs, D A Sciliani, Iraq Victory, Marseilles
125 cs, V Sabello & Co, Iraq Victory, Marseilles
100 cs, Sausage Mfg Co, Iraq Victory, Marseilles
100 cs, Otto Roth & Co, Iraq Victory, Marseilles
1,400 cs, Berdilo Import Co, Iraq Victory, Marseilles
150 cs, Iraq Victory, Marseilles

ORIGANUM—181 bgs, Horseshoe Splice, Vera Cruz

ORRISROOT—454 bgs, E Meer & Co, Iraq Victory, Marseilles

ORTHOCRESOL—100 dms, Inishowen Head, Glasgow

OURICURY WAX—239 bgs, Wessel, Duval & Co, Sussex Trader, Bahia
60 bgs, E A Bromund Co, Sussex Trader, Bahia
112 bgs, Wax & Rosin Products, Inc, Sussex Trader, Bahia
67 bgs, Smith & Nichols, Sussex Trader, Bania
112 bgs, General Wax & Refining Co, Sussex Trader, Bahia
50 bgs, F B Rees & Co, Loide Chile, Bahia

PAPRIKA—50 bgs, Ben Hur Product Co, Exiria, Trieste

PEPPER, BLACK—240 bgs, Chevalier & O'Conner, Irishank, Alleppey
240 bgs, M Gobidetz & Co, Irishank, Alleppey
240 bgs, A G Dunn, Irishank, Alleppey
240 bgs, A C Israel Commodity Corp, Irishank, Alleppey
240 bgs, East India Trading Co, Irishank, Alleppey
400 bgs, Otto Gerdau Co, Irishank, Alleppey
80 bgs, Wallace Bros & Co, Ltd, Irishank, Alleppey
480 bgs, Otto Gerdau Co, Irishank, Cochin
640 bgs, Mincing Trading Co, Irishank, Cochin
180 bgs, J J Murphy & Co, Irishank, Mangalore
350 bgs, Ramadhar Copaddas & Co, Iraq Victory, Singapore
240 bgs, Joemam & Cross, Iraq Victory, Singapore
210 bgs, Iraq Victory, Singapore

PERILLA GUM—350 bgs, Chicle Development Co, Santa Sofia, Barranquilla

PETITGRAIN OIL—60 dms, P R Dreyer, Mormacreed, Buenos Aires
25 cs, Ungerer & Co, Binghampton Victory, Buenos Aires

PETROLEUM, CRUDE—108,638 bbls, Cities Service Oil Co, Fort Haskins, Las Piedras
122,581 bbls, Socony Vacuum Oil Co, Inc, Satuckel, Puerto La Cruz
115,733 bbls, Imperial Oil, Ltd, Imperial Toronto, Puerto La Cruz
121,963 bbls, Standard Oil Co N J, Esso New Haven, Puerto La Cruz

PIMENTO—79 bgs, R T French Co, Toltec, Kingston
100 bgs, A G Dunn, Toltec, Kingston
47 bgs, Gillespie Bros Co, Toltec, Kingston
40 bgs, Commercial Bank & Trust Co, Toltec, Kingston
200 bgs, First National Bank, Toltec, Kingston

PIMENTO LEAF OIL—2 dms, Ungerer & Co, Toltec, Kingston
2 dms, Dodge & Olcott Co, Toltec, Kingston
1 dm, Geo Lueders & Co, Toltec, Kingston
2 dms, Fritzsche Bros, Toltec, Kingston

POPPYSEED—125 bgs, Atlanta Trading Corp, Trinidad, Rotterdam
100 bgs, Levy & Levis Co, Trinidad, Rotterdam
200 bgs, Becker Mayer Seed Co, Inc, Trinidad, Rotterdam
100 bgs, R L Friedler, Trinidad, Rotterdam
600 bgs, Catz American Co, Gainsville Victory, Rotterdam

POTASSIUM HYDROXIDE—50 cs, The Bergstrom Trading Co, Mormacmail, Gothenburg

QUEBRACHO EXTRACT—12,321 bgs, Continental Carriers Corp, Mormacreed, Buenos Aires
2,042 bgs, Oceanic Commodities Co, Mormacreed, Buenos Aires
28,834 bgs, River Plate Import & Export Corp, Mormacreed, Buenos Aires
14,327 bgs, River Plate Import & Export Corp, Binghampton Victory, Buenos Aires
12,450 bgs, Continental Carriers Corp, Binghampton Victory, Buenos Aires

RAPESEED OIL—269 dms, Arnhold & Co, Whirlwind, Hongkong

ROSIN RESIDUE—1,924 dms, G S Ziegler & Co, Mormacmail, Stockholm

SESAME SEED—70 bgs, Ching Sai Trading Co, Whirlwind, Hongkong
2,667 bgs, Public National Bank & Trust Co, Spar Hitch, Puerto Barrios

SAGO FLOUR—682 bgs, Stein, Hall & Co, English Prince, Singapore

SARSAPARILLA ROOT—4 bls, Spar Hitch, Puerto Cortes

SCHEELITE ORE—500 bgs, J W Hampton jr & Co, Whirlwind, Shanghai
300 bgs, W R Grace & Co, Whirlwind, Shanghai

SHADE OIL—25 dms, Foreign Trade Commission, Whirlwind, Shanghai

SHARK LIVER OIL—5 dms, Karr, Ellis & Co, Mormacreed, Buenos Aires

SILVER SULPHIDES—211 bgs, South American Minerals & Merchandise Corp, Santa Catalina, Antofagasta

SODA, CAUSTIC—250 dms, Finodisk Trading Co, Southland, Antwerp

SODIUM SILICOFLUORIDE—350 bgs, Harshaw Chemical Co, Mormacmail, Copenhagen

SPERM OIL—7,226 long tons, W G Smith Co, Anglo Norse, Pacific Ocean

STARCH—100 bgs, Morningstar-Nicol, Inc, Mormacreed, Buenos Aires

TALLOW—1,436 tons, Procter & Gamble, Doctor Lykes, Cebu

TANKAGE—500 bgs, Wessel, Duval & Co, Mormacreed, Montevideo

TAPIOCA FLOUR—1,000 bgs, Geismar & Co, Sussex Trader, Fortaleza
1,636 bgs, Morningstar-Nicol, Inc, Sussex Trader, Camocin
1,667 bgs, Bankers Trust Co, Sussex Trader, Camocin
2,000 bgs, American Key Products, Inc, Sussex Trader, Parnahyba
1,522 bgs, Stein, Hall & Co, Hibbing Victory, Tamatave

TEASEED OIL—50 dms, East Asiatic Co, Whirlwind, Hongkong

TOLU BALSAM—52 cs, Wessel, Duval & Co, Santa Sofia, Barranquilla
50 cs, Wessel, Duval & Co, Toltec, Barranquilla

TUCUM KERNELS—2,307 bgs, General Foods Corp, Sheridan, Parnaiba

TUNG OIL—400 tons, Universal Trading Co, Whirlwind, Shanghai
470 tons, W G Smith Co, Whirlwind, Shanghai
300 tons, Murray Oil Products Co, Whirlwind, Shanghai

VANILLA BEANS—76 cs, R F Downing & Co, Hibbing Victory, Tamatave
24 cs, Thurston & Braidich, Hibbing Victory, Tamatave
42 cs, Otto Gerdau Co, Hibbing Victory, Tamatave
46 cs, Hunziker, Inc, Hibbing Victory, Tamatave
166 cs, Dammann & Smeltzer, Hibbing Victory, Tamatave

VEGETABLE WAX—192 bgs, J Henry Schroeder Banking Corp, Republica De Ecuador, Guayaquil
79 cs, Paul A Dunkel & Co, Whirlwind, Kobe

WATTLE BARK—3,291 bls, Hammond & Carpenter Corp, Great Falls Victory, Durban
2,192 bls, Vermilye Corp, Garden State, Durban

WHITING—4,200 bgs, Nicholas H Weitzner, Trinidad, Anwerp

WOLFRAM ORE—6,000 bgs, Foreign Trade Commission, Whirlwind, Shanghai
458 bgs, W R Grace & Co, Santa Catalina, Mollendo

Baltimore

ANTIMONY REGULUS—4,750 bgs, Treasury Dept, Whirlwind, Hongkong

ARSENIC TRIOXIDE—396 bbls, American Metal Co, Santa Catalina, Callao

CASSIA—300 bls, R T French Co, Iraq Victory, Hongkong
200 bls, McCormick & Co, Iraq Victory, Hongkong

CHROME ORE—329 tons, E J Lavino & Co, Great Falls Victory, Lourenco Marques
3,500 tons, E J Lavino & Co, Whirlwind, Masinloc
11,868,805 lbs, Mutual Chemical Co, Robin Hood, Lourenco Marques

MANGANESE ORE—4,034 tons, Bethlehem Steel Co, Great Falls Victory, Durban
3,000 tons, Carnegie-Illinois Steel Corp, Robin Sherwood, Durban
6,900 tons, Bethlehem Steel Co, Garden State, Durban
500 tons, J Fernandez, Whirlwind, Masinloc

Boston

BLACK WAX—68 bgs, I Sobin & Co, Gainsville Victory, Rotterdam

COCONUT OIL—851 tons, Lever Bros, Mindoro, Cebu

OLIVE OIL—310 cs, Berdilo Import Co, Iraq Victory, Leghorn

QUEBRACHO EXTRACT—820 bgs, American Tanners, Ltd, Binghamton Victory, Buenos Aires

TAPIOCA FLOUR—547 bgs, First National Bank, Sussex Trader, Fortaleza

TEXTILE GUM—60 cks, J P Marston & Co, American Exporter, Liverpool

Norfolk

LEATHER WASTE—705 bgs, American Exporter, Manchester

Philadelphia

BONES—7,336 bgs, Kind & Knox Gelatine Co, Silversandal, Karachi

CARNAUBA WAX—63 bgs, T G Cooper & Co, Sussex Trader, Parnahyba

CHROME ORE—1,720 tons, E J Lavino & Co, African Moon, Lourenco Marques
3,000 tons, E J Lavino & Co, Maiden Creek, Masinloc
1,012 tons, E J Lavino & Co, Robin Sherwood, Lourenco Marques

CODLIVER OIL—479 dms, Whitmoyer Laboratories, Fort Amherst, St Johns

CRESYLIC ACID—70 dms, American Exporter, Glasgow

MICA—204 bgs, Robin Sherwood, Lourenco Marques

VANILLA BEANS—126 cs, The Canary Co, Hibbing Victory, Tamatave
25 cs, M Cortizos & Co, Hibbing Victory, Tamatave

San Francisco

TUNG OIL—60 tons, Pacific Vegetable Oil Co, Whirlwind, Shanghai

Trade Briefs

Warren Petroleum Corporation has elected Hugo A. Anderson a director. Mr. Anderson is vice-president of the First National Bank of Chicago and a director of the Union Asbestos & Rubber Company and the Chicago Corporation.

National Transit Company has elected to its board of directors W. S. Zehrung, president of the Pennzoil Company; John E. Selden, general counsel of the South Penn Oil Company, and Harry A. Logan, president of the United Refining Company.

B. B. Howard, a director of Standard Oil Company (New Jersey) has been awarded a certificate of merit by President Truman for "outstanding fidelity and meritorious conduct against the common enemies of the United States and its allies in World War II."

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N.Y. Paint Technicians Discuss Vinyl Polymers

Vinyl polymers in surface coatings was the subject of discussion at a meeting of the New York Paint and Varnish Production Club held at the Building Trades Employers Association, 2 Park avenue, on February 5.

The speaker was C. W. Patton, manager of the coatings and adhesives materials division of the Bakelite Corporation, who presented technical data on the properties and use of various vinyl polymer resins in formulating specific surface coatings. The growth of the vinyl resin industry from slightly over 1,000,000 pounds of production in 1938 to over 155,000,000 pounds in 1946 was cited as indicative of the increasing importance of vinyls in the plastics and protective coating field.

Some important vinyl resins are the polymerization products of the gas vinyl chloride and the low boiling liquid vinyl acetate, and by varying the ratio of chloride to acetate and the degree of polymerization, a wide variety of resins can be produced, the speaker said.

Resins, he declared, are formulated at specific percentages of chloride to acetate and polymerized to a specific intrinsic viscosity determined by the viscosity of a standard percentage solution of resin in cyclohexanone at 20 degrees Centigrade. The intrinsic viscosity specified is as important as the percentage composition ratios in maintaining the constants of any given resin, according to Mr. Patton. One of the most widely used resins is one containing 87 percent vinyl chloride and 13 percent vinyl acetate on which the intrinsic viscosity is 0.53, it was stated.

The speaker pointed out that in using this resin when the original solution is made with high ketone content, it may be cut to spray viscosity for application with straight aromatic solvents; or, when applied at elevated temperatures for high solids film application solubility in aromatics is increased, allowing solvent combinations which at normal room temperatures would be considered unbalanced.

Mr. Patton stated that adhesion to rough surfaces by this resin is satisfactory without baking, but that on smooth surfaces a short bake is necessary in order to obtain adhesion. The baking of these resins on smooth surfaces is done not to complete a chemical reaction, but to reach a critical temperature at which proper bonding with the surface is attained.

It was further said that high chloride resins when pigmented with iron containing pigments or when applied to steel or zinc surfaces, baking operations under a catalytic effect from the iron causes serious discoloration. This can be prevented only by the use of a suitable stabilizer, of which there are several which work satisfactorily, preventing thermal decomposition.

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South Penn Oil Buys 150,000 Gulf Oil Shares

South Penn Oil Company has purchased 150,000 shares of the capital stock of the Gulf Oil Corporation at a price of $59 per share, a part of the recent offering made by Gulf. South Penn said that the purchase was made as an investment which would probably bring considerably larger earnings than the low interest bearing government securities in which its surplus had previously been invested.

Petroleum Council Members Appointed

OPD Washington Bureau

Ten additional new members have been appointed, and one member reappointed, to the National Petroleum Council by Secretary of the Interior J. A. Krug. The council is an advisory body representing all interests and areas of the oil and gas industry. Members are appointed on a calendar year basis. The new members and the reappointment are:

J. F. Fisher, president, Kendall Refining Company, Bradford, Pa.; Brown, L. Meece, vice-president, Globe Oil & Refining Company, Chicago; Munger T. Ball, president, Sabine Transportation Company, Port Arthur, Tex.; B. C. Graves, president, Union Tank Car Company, Chicago; S. F. Niness, president, Leaman Transportation Company, Downingtown, Pa.; Joseph F. White, founder of White Fuel Company, Boston; Henry E. Zoller, president, Derby Oil Company, Wichita, Kans.; Don E. Gilman, executive vice-president, Western Oil and Gas Association, Los Angeles; Louis M. Faber, executive secretary, Retail Gasoline Dealers Association, Milwaukee, reappointed; William H. Keck, jr., vice-president, Superior Oil Company, Los Angeles, and J. C. Donnell II, Ohio Oil Company, Findlay, Ohio.

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N.E. Paint Club To Meet February 12

The monthly meeting of the New England Paint, Varnish and Lacquer Association will be held at the Statler hotel, Boston, on February 12. Principal speakers will be Joseph F. Battley, president of the National Paint, Varnish and Lacquer Association; Ernest T. Trigg, chairman of the executive committee of the national group; V. A. Acer, vice-president of Spencer Kellogg & Sons, and William R. Morpeth, sales manager of the white pigment department of E. I. duPont de Nemours & Co.

Arrangements have been made with Boston station WHDH to broadcast at the meeting a dramatization of the Boston Stone. The Boston Stone will be rededicated at a ceremony conducted by the club at 4 p.m., February 12.

Orbis Publishes Results Of Anti-Skinning Tests

Orbis Products Corporation, New York, has published the results of experiments with its anti-skinning agent on a number of paint formulations and will supply them upon request. Tests described in the publication were made on outdoor enamel, synthetic equipment eggshell enamel and semi-gloss paint, medium oil alkyd type. Test procedures, both anti-skinning and dry, are outlined.

The product is described as a liquid readily miscible with mineral spirits and other common thinners used in the paint field, and the results published by the company would indicate that it is of value in retarding of skinning and thickening in the paints used in the experiments.

Merkin Paint Company Holds Employee Dinners

The M. J. Merkin Paint Company, New York, recently sponsored dinners for its employees at Hackensack, N. J., and New York, in celebration of its most successful year of business. Speakers at the affairs included M. J. Merkin, president of the company; Ralph H. Everett, sr., executive vice-president; Edward Burger, vice-president; Martain B. Weinstock, secretary and assistant treasurer; Harry Tankoos, jr., advertising manager, and Murray S. Williams, plant manager.

Fagar in New Post

Oscar H. Fagar has been appointed general manager of Petroleum Specialties Company, St. Louis. He was formerly with the Shell Oil Company, New York.

Tropical Oil Company Wins $4,000,000 Suit in Colombia

Tropical Oil Company has received a decision in its favor from a court in Bogota, Colombia, on a suit for $4,000,000 brought against it by Oswaldo Pinedo Salzedo for use of a simplified method of cracking crude petrolium. Mr. Salzedo contended that he had discovered the process, but the court held that the claim was not proved and that the records showed the method was developed with the technical cooperation of the company, by which the complainant was employed.

Louisville Paint Technicians Discuss Resins Development

Members of the Louisville Paint and Varnish Production Club, heard an address by W. F. Whitescarver, American Cyanamid Company, at its recent meeting in Louisville, Ky. Mr. Whitescarver exhibited a motion picture entitled "Science in Resin Development," and spoke on "The Chemistry and Application of Urea and Melamine Resins for Surface Coatings." He illustrated the properties of the resins with tables, described and discussed alkyd blends and gave optimum percentage ranges of the amine resins for definite purposes.

Petroleum Derivatives

The petroleum derivatives market exhibited a quiet tone during the week, as prices continued firm, supplies were short and demand remained consistently strong.

Consumers of aromatic solvents continued to feel the pinch of dwindling stocks last week, as leading suppliers of the petroleum-source material were still reported to be enforcing allocation plans of one sort or another. Although they varied in detail between companies, the general policy of these quota systems appeared to be to limit shipments to levels not exceeding those of 1947. A spokesman for a major producer indicated that his company was still accepting resale business, even to the extent of permitting resellers to take on new accounts. He pointed out, however, that resellers were being advised to keep new business within current quotas.

Aliphatics also continued short during the week, although their supply position was said to be somewhat better than that of aromatics. Regular customers appeared to be receiving sufficient material to meet their requirements, although spot aliphatics were practically unobtainable. The price structure of these solvents and diluents, at the same time, were steady.

Lighter fractions were without feature. Petrolatums and white mineral oils stabilized at higher price levels on the New York market following recent increases.

Market Trends

Prices Advanced

None

Prices Reduced

None

(For Current Prices see Page 9)

Solvents and Diluents

Cleaners' Naphtha—No appreciable change was noted in this section during the week as stocks continued to be reported limited and demand was said to be active. Shipments in sufficient volume were still going out to regular or contract customers, and new business was being held down to a minimum. The price structure, at the same time, remained firm in all areas last week.

Protective Coating Solvents—The pinch in aromatic supplies continued last week, as leading producers of petroleum toluol and xylol were still reported to be applying allocation plans of one sort or another. Though these quota systems varied between companies, the general policy governing them appeared to be identical—to limit shipments to levels not exceeding those of 1947. A spokesman for a major supplier stated during the week that in the main that company was continuing to meet requirements of regular customers, even to the extent of accepting resale business. However, he pointed out that shipments were going out on a quota basis. This meant that though resellers could take on new business they were advised to keep sales within current quotas. Price-wise, the market was firm, as both toluol and xylol in tankcars ranged from 28c. to 30c. per gallon, the spread representing quotations of major coaltar and petroleum producers.

Aromatic-aliphatic blends were similarly short, with one leader in the field reporting that he had no tankcar quantities available. Demand was strong and the price structure continued stable.

Though a shade better than aromatics, aliphatic materials were also exceedingly limited during the week. Lacquer diluent supplies were reported low, as demand continued heavy. Regular customers, however, appeared to be getting sufficient material to meet current requirements, although spot lacquer diluent was practically unobtainable. Prices were steady in the East and in group 3 last week.

Mineral spirits were also in very short supply last week, as calls for this solvent continued unabated. Both regular and contract customers, however, still appeared to be receiving shipments in volume, although occasional buyers reported considerable difficulty in locating stocks. Prices were firm during the week in all areas.

The same market conditions obtained for stoddard solvent last week as for mineral spirits. Stocks were low. Regular customers, however, continued to be supplied. Overall demand was strong and prices were firm.

V. M. & P. naphtha stocks were similarly low, as demand continued heavy. Producers reported ability to meet needs of regular customers, but occasional buyers were still finding difficulty in locating material. The price structure showed no variance from levels of previous weeks.

Rubber Solvents—Stocks of these materials were comparable to those of other aliphatics. Although limited, supplies were said to be sufficient to meet the needs of regular or contract consumers. Prices continued firm in all areas.

Los Angeles.—Call for petroleum solvents and diluents was reported excellent. Extremely short supplies, however, continued to make the market tight. Stoddard solvent and petroleum spirits, ex-tax, 5 to 49 gallons, 18.7c. per gallon; 50 to 199 gallons, drums or tankcars, 16.7c.; 200 or more gallons, 14.7c., and tankcars, 12.7c.

Lighter Fractions

No appreciable change was noted in this section last week. Butane and propane continued in extremely short supply; pentane, though short, was reported in a better supply position than liquefied petroleum gases, while heptane and hexane continued in relatively good supply. Price-wise, all lighter fractions remained firm last week.

Petrolatums and Waxes

Prices on the New York market stabilized during the week following recent ½c. to ⅝c. per pound increases by leading suppliers. Demand continued strong and supplies were at previous levels. Following are current market quotations:—USP, amber, non-ret. drums, 4¾c. to 5⅞c. per pound; cream, 6½c. to 8⅛c. per pound; extra amber, 5c. to 6 1/8c. per pound; white, lily, 6¾c. to 8⅜c. per pound; white, snow, 7¾c. to 9⅜c. per pound; white, soft, 6½c. to 7⅝c. per pound, and yellow, soft, 4⅜c. to 6c. per pound.

Miscellaneous

Crude Oil—Imports during the week totaled 231 219 barrels from Puerto La Cruz and Las Piedras. The Bureau of Mines forecast of crude production for February was estimated at 5,331,000 barrels daily, the major part of which was expected to be furnished by Texas and California fields with 2,360,000 and 930,000 barrels, respectively. Actual demand during February, 1947, was reported at 4,775,000 barrels per day. The government forecast was based on actual current trends in the demand for all products, adjustments for seasonal changes in refined stocks, allowance for the current rate of imports of foreign oil, and consideration of available refinery capacity. The February forecast included estimates of a total gasoline demand of 61,500,000 barrels, and total crude runs to stills of 5,350,000 barrels daily.

Fuel Oil—Imported last week were 10,000 barrels from Curacao. Meanwhile, the Navy Department announced a new program during the week for lending Navy oil stocks to New York City and other communities during their fuel oil emergencies. Navy officials pointed out, however, that the available fuel was too small to provide much relief for the city.

White Mineral Oils—The price structure steadied in New York last week following recent 6c. per gallon increases. Demand and supply continued at previous levels. Carlot prices in New York follow:—50-65 51c.; 80-90 viscosity, 55c.; 125-135 viscosity, viscosity, 48c. per gallons; 65-75 viscosity, 67c.; 145-155 viscosity, 69c.; 175-185 viscosity, 72c.; 200-210 viscosity, 76c., and 335-345 viscosity, 84c.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended January 24 totaled 221,915,000 barrels, according to the Bureau of Mines. Compared with the total of 221,941,000 barrels for the preceding week, this represents a decrease of 26,000 barrels, comprising an increase of 126,000 barrels in stocks of domestic crude and a decrease of 152,000 barrels in stocks of foreign crude. Heavy crude-oil stocks in California, not included in the gasoline bearing stocks totaled 6,323,000 barrels, an increase of 188,000 barrels.

For Late Market Developments, See Page 4

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Oils, Fats and Waxes

Substantial price declines in oils and fats demoralized the market last week and quotations receded daily. Selling pressure was heavy and offerings liberal with no takers. Consumers were on sidelines and requests for lower bids received little attention. The sharpest decline occurred in soybean oil, which dropped about 7 cents per pound. Coconut oil tumbled 6 cents per pound and copra $40 per ton. Cottonseed oil was weaker with crude oil reduced about 5½ cents and the refined oil futures market broke wide open, and on certain days dropped the 200 points daily limit under aggressive selling and liquidation which caught stop loss orders. There was less selling pressure on corn and peanut oils, but prices were reduced 5 cents per pound. Weakness in vegetable oils was reflected in tallow and grease and a moderate volume of business was transacted at a decline of 4 cents per pound. Lard broke sharply with grains and futures sold at new seasonal lows. This caused other animal oils to weaken and prices dropped 2 to 5 cents per pound, with further reductions anticipated unless the demand improves. Drying oils also were lower, but not to the extent of the edible grades. Flaxseed declined sharply and this combined with the poor demand for linseed oil, resulted in fractional declines in oil quotations. Dehydrated castor oil was lowered 1 cent. Tung oil declined fractionally under increased offerings for prompt delivery and lack of consuming inquiry. Arrivals of tung oil were heavy during the past two weeks. Linseed, cottonseed and soybean meals were easier and declined about $10 per ton.

Market Trends

Prices Advanced

None

Prices Reduced

Castor oil, dehydrated, 1c. per lb.
tech., No. 3, 1c. per lb.
Coconut oil, 6c. per lb.
Copra, $40 per ton.
Corn oil, 5c. per lb.
Cottonseed meal, $10 per ton.
oil, 5½c. per lb.
Flaxseed, 60c. per bushel.
Grease, 4c. per lb.
oil, 2c. per lb.
Lard, 4c. per lb.
Linseed meal, $10 per ton.
oil, 1½c. per lb.
Menhaden oil, ref., 2c. per lb.
Neatsfoot oil, 5c. per lb.
Peanut oil, 5c. per lb.
Sardine oil, ref., 2c. per lb.
Soybean meal, $10 per ton.
oil, 7c. per lb.
Tallow, 4c. per lb.
oil, 2c. per lb.
Tung oil, 1½c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week.	Prev. week.	Last month.	Last year.
216.0	241.6	251.3	296.3

(For Current Prices see Page 9)

Cottonseed Oil

Sensational declines featured the bleachable cottonseed oil futures market last week. The market broke wide open and under heavy liquidation, quotations dropped several hundred points. Trading was of record postwar dimensions, with prices declining the 200 points daily limit on Wednesday and Thursday. Weakness in lard, grains and competing vegetable oils were the depressing factor. Heavy offerings of cash oil and lack of buying interest caused prices to decline 3c. to 4c. per pound.

Crude oil declined sharply with net losses of about 5½c. per pound for the week. Offerings were heavy and prices dropped to 21c. per pound, tankcars, f.o.b mills, for February with no buying interest.

Prices of refined bleachable prime summer yellow cottonseed oil in tankcars on the N. Y. Produce Exchange for the week ended February 6, follow:—

	Sales	High	Low	Close
		Cents per pound		
March	183	28.58	21.90	23.65@23.80
May	813	26.75	21.90	22.18S
July	279	25.90	20.40	21.25@21.30
September	67	24.55	19.15	20.00S
October	14	22.60	18.25	18.00@18.75
December	14	20.71	17.85	17.00@18.75
January	..	....	....	18.00N

Total sales—1,024 tankcars.

Crude oil declined 21c. per pound, tankcars, f.o.b. mills, but was entirely nominal.

Bleachable cottonseed futures rallied on Friday and scored net gains of from 5 to 59 points.

Memphis—Crude cottonseed oil sold at 23c., tankcars, February-March, and 22c., April, early in the week. Soybean oil sold at 20½c., Valley, February. Buying interest later withdrawn. Cottonseed meal, 41 percent, quoted $36 per ton, February, and $85, March-April, Memphis. Cottonseed hulls, $16 per ton, bulk, mills. Soybean and cottonseed meal down $15 per ton from recent highs. Soybean meal, 41 percent, quoted $87, sacked, February, and $85, March, f.o.b. Memphis.

Linseed Oil

As a result of the sharp break in flaxseed coupled with the lack of consuming interest in oil replacements the market was easier and prices of raw oil were reduced ½c. per pound. Declines in fish, soybean, dehydrated castor and tung oils were contributing weakening factors and further declines in linseed oil were expected by the consuming trade. Raw oil was quoted at 31.30c. per pound, tankcars, for February-March shipment and 30.80c. for April forward.

Stocks of flaxseed in all positions on January 1, 1948 totaled 27,890,000 bushels. Of this total 10,530,000 bushels were on farms, according to estimates of the Crop Reporting Board. Of the 17,360,000 bushels in off-farm positions, 7,235,000 bushels were commercial stocks at terminals, with the remainder in processing plants, interior elevators and warehouses.

Minneapolis—Demand for oil was extremely slow, buyers perfectly willing to go along on a hand to mouth basis and wait further developments in the oil market. Pressure of other oils increased and there was some competitive oil offered from Canada, in sufficient volume to take any of the slack out of the market.

Oil prices were nominal at 36.70c., tanks, for prompt shipment, zone 1.

Shipments of linseed oil, in pounds, were as follows:—

	1947-48	1946-47
This week	5,820,000	5,060,000
Since Sept. 1	153,280,000	129,960,000

Flaxseed—Prices were reduced with the sharp break in other grains. Trading was reported active at the lower levels.

Minneapolis—Drastic declines in soybean quotations, and weakness in other grains and commodities caused flaxseed to drop rather sharply in the past week at Minneapolis. Liberal stocks of seed, estimated at between 2,000,000 and 3,000,000 bushels in local terminals, were liquidated as prices dropped from $7.10 to $6.30 a bushel. It is estimated that crushers have, in public and private stocks, approximately 8,000,000 to 9,000,000 bushels of seed at Minneapolis, which would insure a run of approximately 4 months.

Shipments of flaxseed in bushels were as follows:—

Bushels—	Receipts 1947-48	Receipts 1946-47	Shipments 1947-48	Shipments 1946-47
This week	180,200	90,100	50,200	35,700
Since Sept. 1	18,813,800	9,902,700	2,774,100	3,828,200

Other Vegetable Oils

Castor, Dehydrated—Prices of all grades were reduced 1c. per pound last week. Demand has fallen off of late and with competing oils lower, the market was easier. Dehydrated, bodied was cut to 29c. per pound, tankcars and unbodied to 28c. Drums, carlots were ¾c. higher. No. 3 was lower at 25½c. in tankcars and drums carlots, 26½c.

Coconut—Lack of demand and cheaper copra resulted in a weaker tone and the market declined about 6c. per pound. Offerings were heavy with no takers. Crude oil was offered at 18c. per pound, tankcars, f.o.b., Pacific coast for February-March and was easy thereat. Copra market was sharply lower and was nominal at $260 per short ton, c.l.f. Pacific coast, off $40 for the week.

Corn—Inquiry was inactive and the market declined 5c. per pound. Crude oil was offered at 23c. per pound, tankcars, f.o.b. mills. Business was quiet. Refined also was lower and nominal at 29c., tankcars, mills.

Oiticica—New crop oil was available at 24c. per pound, tankcars, New York basis for March forward delivery and drums, carlots at 25c. and smaller quantities at 25½c. Trading was slow.

Olive—Imports of olive oil were placed under import control through an amendment of WFO 63, by the Department of Agriculture, February 2. The department said that 33,000 tons will be available for allocation to United States importers applying for licenses prior to midnight, February 14, with 10 percent allocated to veterans and newcomers in the industry and the remainder to importers of record. The department also said that existing agreements covering the exchange of soybean oil for olive oil will apply only to shipments leaving producing counties before March 1. IEFC has placed the world's exportable supplies of olive oil at 123,000 tons and has recommended an allocation of 33,000 tons to the United States. This is larger than the previous postwar allocation, but less than the

For Late Market Developments, See Page 4

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prewar average. Mixtures and combinations of olive oil with other oils are also under control of WFO 63, but no licenses will be issued for such importations, the department declared.

Peanut—In sympathy with the weakness in cottonseed and other edible fats, the market declined 5c. per pound. Offerings were not liberal, but buying interest was lacking. Crude oil was quoted at 21c. per pound, tankcars, f.o.b. mills for prompt shipment. Refined was nominal at 30c., same basis.

A national production goal of 2,839,000 acres of peanuts to be picked and threshed in 1948 was announced February 3 by the Department of Agriculture. The 1947 crop was 3,378,000 acres. The proposed acreage would yield about 935,000 tons of farmers stock peanuts, on the basis of average yields during the years 1943-47. The 1947 crop totaled 1,051,000 tons. Prices for 1948-crop peanuts will be supported by the Commodity Credit Corporation at 90 percent of parity as of the beginning of the marketing year on July 15, 1948.

Soybean—Prices broke sharply and declined about 6c. per pound last week. Offerings were heavy with buyers backing away. Light sales of crude were reported at 16½c. per pound, tankcars, f.o.b. mills, for February shipment. May-forward was nominal 16c. to 16½c., same basis. Refined oil was lower and nominal at 22c., tankcars, mills.

Prices of refined bleachable soybean oil, in tankcars on the N. Y. Produce Exchange for the week ended February 6, follow:—

	Sales	Cents per pound High	Low	Close
March	..	....	....	21.00A
May	..	....	....	20.50A
July	..	....	....	20.00A
September	..	....	....	20.00A
October	..	....	....	17.25N
December	..	....	....	17.25N
January	..	....	....	17.25N

Total sales—None.

Tung—Heavy arrivals and quiet demand further weakened this market last week and light sales were reported at 25¼c. per pound, tankcars, New York basis, a decline of ½c. Offerings were liberal with consumers showing little interest. Imports totaled 4,070 tons at New York during the week.

Fats and Greases

Greases—Further weakness developed as a result of the sharp break in competing oils and fats, and the market declined 4c. per pound. Trading was moderate and quotations were more or less nominal at the lower levels. House was quoted at 17c. per pound, loose; choice, white, 19c., and yellow, 17½c.

Lard—This market broke sharply with grains, and competing oils, and prices declined about 4c. per pound. Futures registered new seasonal lows. Cash loose, was quoted nominally at 20c. per pound, Chicago.

Tallow—Sales of moderate quantities were transacted at a decline of 4c. per pound. Weakness in competing fats and light buying interest caused the market to decline. Fancy was sold at 19c. per pound, tankcars; loose, extra, 18¾c., and special, 18½c.

Animal Oils

Grease Oil—Prices were weak and declined about 2c. per pound. Buyers withdrew interest in requirements and the market was nominal affair. No. 1 was quoted at 28c. per pound, drums, extra Winter strained, 29c. and prime burning, 30c.

Neatsfoot Oil—Market was lower with easier pressing stock and quotations were off about 5c. per pound. The 15-deg. grade was quoted nominally at 42c. to 42½c. per pound, drums, as to quantity; 20 deg., 40c. to 40½c. and 30 deg., 37c. to 37½c.

Oleo Oil—Prices were lower and merely nominal. Extra was quoted 30c. per pound, tierces, Chicago.

Tallow Oil—Business was inactive and the market weak. Prices were reduced 2c. per pound, but were entirely nominal. Acidless oil was nominal at 26c. to 27c.

Fish Oils

Menhaden—Demand for refined oil was slow and the market was weaker with competing oils. Prices were reduced 2c. per pound. Crude oil was inactive and merely nominal. Light pressed oil was offered at 24c. per pound, tankcars, and drums, at 25.40c. Alkali refined, 26.90c. and kettle bodied, 28.60c.

Sardine—Prices of sardine oil were easier and declined 2c. per pound. Trading inactive and the market was more or less nominal. Crude oil was scarce and also nominal at 24c. per pound, loose, f.o.b. Pacific coast, though this price was considered too high in view of the sharp break in refined fish and soybean oils.

Los Angeles—Fishing off, very few sales reported. Oil was quoted at 24c. per pound. U. S. Fish and Wildlife Service reported 93,506 tons were landed this season through January 31,

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compared with 209,667 tons for the same period last year.

Cake and Meal

Cottonseed Meal—Buying interest practically disappeared and only scattered carlot trading was noted last week. Best bid for 41 percent sacked was $89 per ton for March-April. 41 percent loose slab cake sold in the Valley at $86 for February and 41 percent sacked meal sold at $92 Memphis. However, the feed trade in general would not pay these prices.

Linseed Meal—This market was easier with the weakness in competing meals and grains.

Minneapolis—Demand for meal slowed up considerably, following weakness in millfeed and other markets and while prices ranged from $105 to $110 per ton, bulk, in the spot market. March-April delivery was about $10 per ton lower.

Shipments of linseed meal, in pounds, were as follows:—

	1947-48	1946-47
This week	12,900,000	6,360,000
Since Sept. 1	251,640,000	175,400,000

Peanut Meal—No new offerings appeared in the market because most mills are being pushed to fill previous commitments. Resale lots of sacked 45 percent were sold at $92.50 f.o.b. Alabama mills, February shipment.

Soybean Meal—Sacked 41 percent was offered at $91 basis f.o.b. Decatur, for spot and February shipment. Sacked 45 percent was offered by North Carolina crushers at $100 per ton. Sacked 45 percent was freely offered at $95 f.o.b. Valley mills. Demand was quiet.

Waxes

Beeswax—High cost of crude replacements continued to feature this market. Offers for shipment were scarce and for limited quantities which were quoted at higher levels. Crude were increased 1c. per pound, and while refined were unchanged, prices were firmer.

Oils, Fats Production Consumption: December

The preliminary statistics of the factory production and consumption of animal and vegetable fats and oils for December, 1947, as compiled by the Bureau of Census, follow:—

Vegetable Oils

	Pounds—Production	Pounds—Consumption
Babassu, crude	.....	[2] .....
Refined	.....	[2] .....
Castor, No. 1, crude	9,157,000	6,886,000
No. 3, crude	2,719,000	1,709,000
Dehydrated	3,282,000	2,317,000
Sulphonated	.....	256,000
Chinawood or tung oil	852,000	9,228,000
Coconut, crude	77,238,000	76,857,000
Refined	38,225,000	28,317,000
Corn, crude	16,950,000	18,821,000
Refined	17,129,000	4,854,000
Cottonseed, crude	374,444,000	171,879,000
Refined	159,637,000	122,567,000
Linseed	45,496,000	38,537,000
Olive, edible	385,000	18,000
Inedible	.....	29,000
Sulphur oil or olive foots	[2]	37,000
Oiticica	.....	567,000
Palm, crude	.....	3,555,000
Refined	.....	274,000
Peanut, crude[1]	15,992,000	12,294,000
Refined	11,544,000	4,311,000
Rapeseed	[2]	802,000
Sesame	.....	59,000
Soybean, crude	139,551,000	123,393,000
Refined	112,683,000	110,906,000
All other	1,373,000	1,546,000

Animal Oils

Lard, rendered (including neutral lard and rendered pork fats)	203,173,000	9,957,000
Neatsfoot oil	218,000	304,000
Tallow, edible	7,209,000	3,818,000
Inedible	96,939,000	142,240,000

Fish and Marine Mammal Oils[3]

Cod	166,000	1,005,000
Codliver	14,000	951,000
Marine mammal	.....	3,057,000
Other fish	[4] 8,848,000	18,846,000
Other liver	328,000	828,000

Greases

Greases (including garbage and house), other than wool	48,857,000	52,589,000
Wool grease	1,729,000	1,707,000

Secondary Products

Animal fats and oil fatty acids	2,710,000	475,000
Animal foots, 100% basis	2,208,000	2,112,000
Fish and marine mammal fatty acids	2,710,000	475,000
Grease and lard oil	3,291,000	2,884,000
Oleo oil	7,861,000	417,000
Red oil or oleic acid	5,790,000	4,650,000
Stearic acid	5,219,000	4,887,000
Foots, from fish and marine mammal oil (100% basis)	[6]	475,000
Stearin, animal, edible	3,053,000	1,468,000
Inedible	1,565,000	1,310,000
Stearin, vegetable oil, winter	9,176,000	7,563,000
Tallow oil	883,000	962,000
Vegetable oil fatty acids from foots and other than from foods including fatty acids from tall oil, palm oil, refuse, etc	9,976,000	6,630,000

Other Products

Glycerin, chemically pure (100% basis)	9,202,000	7,463,000
crude oil (100% basis)	19,064,000	19,138,000
high gravity and yellow distilled (100% basis)	8,753,000	7,468,000
Hydrogenated oils, edible	112,258,000	112,250,000
Inedible	20,047,000	21,570,000
Shortening	131,819,000	324,000
Winterized vegetable oils	49,716,000	.....

[1] Data on production collected by Bureau of Agricultural Economics; stocks held by crude peanut oil producers also reported by Bureau of Agricultural Economics whereas those held at refineries are collected by the Bureau of the Census.
[2] Included in "all other" vegetable oils to avoid disclosures of operation of individual establishments.
[3] Fish and Wildlife Service collected the data from fish oil producers.
[4] Includes 1,884,000 pounds of menhaden oil and 626,000 pounds of herring, sardine and pilchard.
[5] Includes 3,245,000 pounds of menhaden oil and 2,293,000 pounds of herring, sardine and pilchard.
[6] Not shown to avoid disclosure of individual operations.
[7] Monthly data beginning January, 1947, are not comparable with those shown previously, due to the fact that three soap producing plants previously reporting fat splitting and production and consumption of fatty acids in soap are now reporting the consumption of animal fats, such as inedible tallow, in the manufacture of soap.

Raw Materials Used

	Tons—Consumption	Tons—Stocks Dec. 31
Babassu	.....	.....
Castor beans	12,501	11,722
Copra	60,511	41,611
Corn germs	222,630	700
Cottonseed	565,470	1,426,011
Flaxseed	64,925	183,640
Soybeans	456,570	1,405,661
Peanuts[2]—		
Farmer's stock[3]	23,550	497,787
No. 2 and oil stock[4]	9,778	7,429
Other	2,613	2,494

[1] Included in other seeds.
[2] Bureau of Agricultural Economics collected the data on consumption and stocks of peanuts.
[3] Weights shown for peanuts in shell. Stocks figures include quantities held for making peanut butter, candy, and for other uses, as well as for crushing.
[4] Weights shown for shelled peanuts. Stocks figures include quantities held at all commercial locations, principally for crushing into oil and meal.

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Ziegler Names Kraaz Wax Division Head

G. S. Ziegler & Co., New York, has appointed Heinz W. Kraaz manager of its wax division. Simultaneously, the company announced that a modern plant with the latest type wax manufacturing facilities will soon be in operation at its New Market, N. J., plant. The new wax unit will be equipped for oxidizing, refining, bleaching, blending and slabbing, and a new wax research laboratory is also being installed.

Heinz W. Kraaz

Mr. Kraaz recently resigned as vice-president of the wax and oil division of the Allied Asphalt & Mineral Corporation, and he was formerly associated with the Ernst Schliemann Wax & Oil Refineries. He will be assisted in his new position by H. K. Hastings, who will be in charge of wax production, and Walter A. Chaskel, who was formerly in charge of the natural wax division of the War Production Board.

Blaw-Knox Co. Marketing New Soybean Processing Unit

The chemical plants division of the Blaw-Knox Company, Pittsburgh, is now marketing its "Vapor Desolventizer," for plants processing soybeans. The new unit removes the residual solvent from extracted soybean flakes at a temperature sufficiently low to prevent protein degradation, according to the company.

All heat is supplied to the system through the use of superheated solvent vapor, thus eliminating metallic heat transfer surfaces and localized overheating of the soybean flake. The company maintains that the resultant advantages are a simpler, more compact unit with appreciable savings in equipment together with lower operating and maintenance costs, as well as higher quality flakes and greater protein yields. The unit is designed in sizes for daily capacities of 50, 100, 200 and 250 tons of soybeans.

Trade Briefs

Colgate-Palmolive-Peet Company has appointed James C. Douglass radio coordinator in its foreign department.

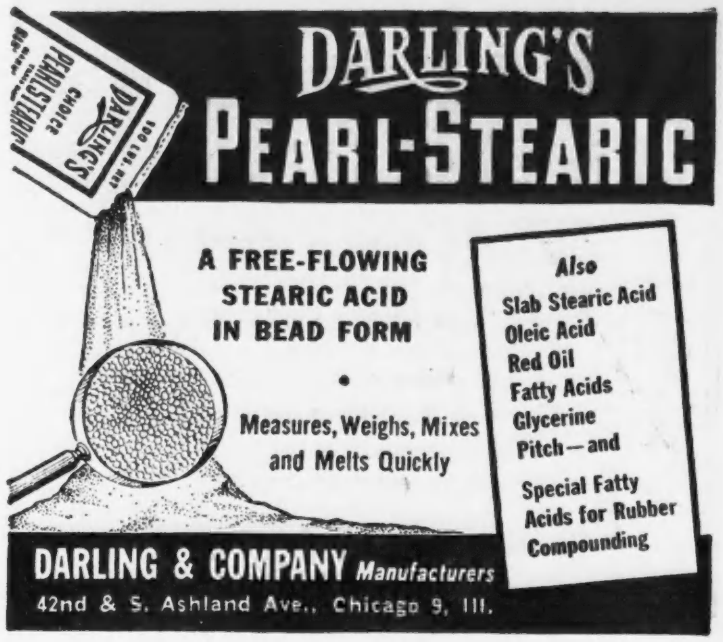
Procter & Gamble Company paid more than $1,000,000 in profit-sharing dividends to its employees during 1947.

Liberty Vegetable Oil Company, Norwalk, Calif., is erecting a corrugated metal seed house at its plant at 326 North Carmelita avenue in that city.

Vegetable Oil Products Company, Wilmington, Calif., has awarded a contract for the construction of a two-story warehouse at 410 South Avalon boulevard, in that city.

S. C. Johnson & Sons, Inc., wax manufacturer, Racine, Wisc., has purchased a 45,000-square-foot plot of ground in Queens, New York, and plans to erect a building for the manufacture and distribution of its products.

Whale oil operations will be started by the French merchant marine, using three former German whaling ships operating off bases around the south of Africa and Madagascar.



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Tall Oil Production In Germany Reported

OPD Washington Bureau

The use of tall oil as a substitute for linseed oil and rosin in the German surface coating and linoleum industries is described in a report now on sale by the Office of Technical Services. The report contains formulas, manufacturing details and methods of using the finished oil.

Tall oil has been used as a raw material in the surface coating and kindred industries in Germany for many years, the report states. The development of refining processes and the encouragement of its present diversified use was pioneered by the Spangenberg Werke, Hamburg-Eidelstadt, which processed approximately 12,000 metric tons per year during the war.

A table in the report lists the types of refined tall oil and tall oil esters made available to industry by the Spangenberg Werke. The tall oil distillate was used in the manufacture of stand oil type esters and alkyds, and the tall oil abietic acid distillate was used as a substitute for rosin in the manufacture of ester, gum, and modified phenolic resins.

A description of the manufacture of "Lumitol," a vinyl ester produced by reaction of tall oil acids with acetylene at the Ludwigshafen plant of I. G. Farbenindustrie is included in the report. The material has good water resistance as compared with other coating vehicles produced from tall oil acids and good pigment binding ability, according to the report. It states that "Lumitol" is easily soluble in petroleum and aromatic hydrocarbons as well as in turpentine, chlorinated hydrocarbons, esters and higher ketones.

Mimeographed copies of the twenty-four-page report (PB-81822, "Utilization of Tall Oil in Germany") are available for 75 cents. Orders should be addressed to the Office of Technical Services, Department of Commerce, Washington 25, D. C., and should be accompanied by check or money order payable to the Treasurer of the United States.

Oil Chemists Meetings Planned in May, Nov.

The American Oil Chemists Society will hold its annual meeting at the Roosevelt hotel, New Orleans, La., on May 4 to 6. Election of officers will be conducted by mail preceding the meeting. T. H. Hooper, of the Southern Regional Research Laboratory, New Orleans, is general chairman for the meeting, and S. O. Sorenson, of Archer-Daniels-Midland Company, is in charge of nominations.

The society is also planning to hold its Fall meeting at the Pennsylvania hotel, New York, on November 15 to 18. The first three days of the Fall meeting will be occupied with technical sessions, and the final day will be devoted to plant trips. There will be space provided for exhibits, which will be under the charge of Dr. R. H. Rogers, jr., Swift & Co., Chicago.

The general committee for the meeting is composed of:—General chairman, Dr. Foster D. Snell, Foster D. Snell, Inc.; vice-chairman, Dr. J. J. Mattiello, Hilo Varnish Corporation; secretary, C. P. Neidig, Burrell & Neidig, Inc.; treasurer, Harry Burrell, Burrell & Neidig, Inc.

Also, arrangements, M. F. Lauro, New York Produce Exchange; entertainment, R. H. Neal, Best Foods, Inc.; exhibits, Dr. R. H. Rogers jr., Swift & Co.; finance, Dr. Donald Price, Oakite Products, Inc.; hotels and banquet, Dr. Warren M. Sperry, N. Y. State Psychiatric Institute; ladies committee, Dr. Cornelia T. Snell, Foster D. Snell, Inc.; plant trips, H. B. Larner, M. W. Kellogg Company; program, Dr. H. W. Valteich, Best Foods, Inc.; publicity, John B. Calkin, Union Bag & Paper Corporation; reception, Prof. Arthur W. Thomas, Columbia University; registration, M. L. Anson, Continental Foods, Inc., and transportation, E. A. Sigworth, West Virginia Pulp & Paper Company.

United States and Italy Signs Commerce Treaty

OPD Washington Bureau

A Treaty of Friendship, Commerce and Navigation was signed in Rome last week between the United States and Italy. It was the first comprehensive commercial treaty concluded by the United States with a European country since 1934, and the first treaty of its type signed by Italy since the conclusion of peace.

The treaty, which is based in general upon the principle of mutuality, establishes standards to govern relations between the two countries in many fields of activity. It includes articles relating to the status and activities of persons and corporations, protection of persons and property, landholding, freedom of information, treatment of vessels, commercial principles comparable to those in the proposed Charter for an International Trade Organization, and provisions concerning such matters as exchange control, transit, industrial property, and so forth.

Trade Briefs

Fatty acids and oils were allocated the sum of $4,800,000 for importation into the United States and British zones of Germany.

Soap production by the Luzon Industrial Corporation in the Philippine Republic is to be raised from 8,000 tons to 15,000 tons annually.

Soap imported into the United Kingdom during the first nine months of 1947 amounted to 7,187 hundredweight, valued at £70,625, compared with 949 hundredweight, valued at £5,332, in the corresponding period of 1946.

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Socony-Vacuum Names Mellett Mediterranean Refining Officer

Socony-Vacuum Oil Company has appointed Dana S. Mellett vice-president of its subsidiary, Mediterranean Refining Company. Mr. Mellett's former position as chief engineer of the parent company's Trenton, Mich., refinery has been assumed by E. A. Wilson.

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2—Shriver 42" Wood P. & F. Presses.
2—Oliver Rotary Vacuum Filters, 5'3" x 6' and 6' x 2"; other sizes.
4—Oliver No. 100 Cylindrical Pressure Filters, monel leaves.
8—Proctor & Schwartz Continuous Conveyor Type Soap Dryers, 59' long, 24' wide, capacity 7,500 lbs. per 8 hours.
1—Stainless P. & S. Dryer, for Foods, 72' long.
2—Patterson Silex Lined Pebble Mills, 6' x 5'.
2—New 150 gal. Stainless Steel Jacketed and Agitated Kettles in stock; others up to 500 gal.
2—New Stainless Steel Double Ribbon Mixers in stock, 1,500 lb.

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40—Ribbon Type Dry Mixers up to 3,000 lbs.

PULVERIZERS and GRINDERS

6—Mikro Pulverizers, Nos. 1, 2 and 4, some in Stainless.
10—Fitzpatrick Model D, Stainless Steel Comminuting Machines.
45 others by Raymond, Williams, Gruendler, Stedman, Schutz-O'Neill.

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1—8' x 12' Oliver PRECOAT FILTER.
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47—Aluminum TANKS, 800, 700, 250 gallons.
2—1,500 gal. Stainless Steel Jack. VERTICAL TANKS.
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2—No. 4-TH 24" MIKRO PULVERIZERS, triple screw feed.
2—Micro Pulverizers, No. 18H, each with two totally enclosed fan-cooled motors.
1—Badger 885 gal. all copper GIN STILL, complete wih condenser and pump.
2—World ROTARY LABELERS, late type, M.D.
2—W. P. MIXERS, jacketed, 100-gal. sigma blades.
1—Colton No. 8 Can FILLER, 1/8 pt. to 1 qt.
1—Premier 5" Colloid Mill, 10 H.P. motor.
1—York 500 GPM HOMOGENIZER bronze fitted, with 15 H.P. A.C. motor.
1—Pneumatic Scale Tight Wrap Machine, M.D.
1—Ferguson PACKOMATIC Auger FILLER, Model MG.
2—Colton No. 3 TOGGLE Globule PRESSES, for making capsules.
1—Pneumatic Scale six head CAPPING MACHINE.
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1—Ball & Jewell ROTARY CUTTER.
1—Stokes & Smith Auger POWDER FILLER, M.D.

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2—Buflovak 24" x 20" Rotary Vacuum single DRUM DRYERS, complete with surface condensers and vacuum pumps. Iron Drums, Copper-Lined Housing.

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1—Kent, 16x40, motor driven.
2—Day, 12x32, motor driven.
2—Kent, 12'x30", motor driven.
3—20x18", belt driven.

SEND FOR COMPLETE LIST OF PAINT MACHINERY

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1—Day steel horizontal JUMBO MIXER, 8,000 lb. cap., with stainless steel spiral agitator.
2—Day Invincible, 415 lb. MIXERS.
1—Day, size D, 600 lb. MIXER, M.D.
12—Read 700 lb. horizontal, jacketed MIXERS.
1—Gedge Gray 1,000 lb. horizontal MIXER, reduction drive.
1—Gedge Gray 1,200 lb. horizontal MIXER.
1—Steel 2,000 lb. horizontal ribbon agitation MIXER, with 20 HP motor.
2—MUNSON Rotary MIXERS, 2,000 lb. and 3,000 lb.

KETTLES

67—Copper 250 gal. JACKETED KETTLES.
35—Aluminum JACKETED KETTLES, 20 to 100 gallons.
3—Aluminum JACKETED, AGITATED KETTLES, 1,200, 750, 500 gallons.
36—Stainless Steel JACK. KETTLES, 80, 60, 40, 30, 20 gals.
2—1,500 gal. Vertical, open top, S.S. Jack KETTLES.
1—500 gal. Dopp JACKETED.
1—400 gal. Copper Steam Jacketed.
1—250 gal. Copper Jack. Agit. Closed KETTLE—VAC. STILL.
2—Copper Steam Jacketed Agitated KETTLES, 1—54" dia. x 42" deep, 300 gals.; 1—36" dia. x 31" deep, 70 gals.

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1—Stokes DD rotary 23 punch TABLET MACHINE with V-belt and 5 HP motor, with 3 sets of punches and dies.
1—Colton No. 5½ "T" single punch, V-belt to 5 HP AC motor, max. dia. 3¾".
1—Colton No. 4½ single punch, max. dia. 1¼".
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4—Oliver, 8' x 8', 8' x 6', 3' x 4'.

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2—Steel 400 gal. Kettles, closed jacketed double motion paddle agitators, 50 lb. internal pressure, 5 HP exp.-proof motors.
6—2,000 stainless steel, closed jacketed agitated kettles.
1—New Dopp 150 gal. Jacketed, Agitated Kettle, jacketed blades.
1—Blaw-Knox 100 gal. Steel Jacketed, Pressure Kettle.
5—Stainless Steel Kettles, 60 to 500 gals.
1—Pfaudler jacketed agitated glass-lined Kettle, 60 gallon.
12—Pfaudler Tanks, 40 to 500 gal.
1—Buflovak 6' dia., Vacuum Type.
3—Copper stills, 100, 150, 400 gals.
2—Buflovak 6' Atmospheric.

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60—Baker Perkins Mixers, 100 gal., jacketed, sigma blades.
36—Tolhurst, Bird and AT&M, Suspended Type, 40", 42" and 48" Centrifugals, steel and stainless steel baskets, motor driven.
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40—Tank Scales with tanks up to 10,000 gal.

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1—A.T.&M. 40" Suspended Type Centrifugal, 30 HP—1,800 RPM.
4—Tolhurst 32", 40" Self-Balancing Type Centrifugals.
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1—Sharples No. 6 Pressurtite Centrifuge.
1—Sharples No. 6 Super Centrifuge.
2—De Laval No. 600 Clarifiers.

MIXERS

1—Baker Perkins, Type VI, Class BB, size 15, jacketed sigma blades.
3—W.&P. ½, 9 and 20 gals.
1—Readco 4 gal., double arm, stainless
25—Powder Mixers, 400, 600, 1,000, 2,000 and 3,000 lb., Motor Driven, NEW.
12—Portable Electric Agitators, ¼ to 2 HP.
10—80 & 100 gal. Lead Mixers, motor driven.

DRYERS

2—Devine, Stokes Vacuum Shelf Dryers, 7 and 20, 40" x 43" shelves.
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1—Buflovak 32" x 90" Atmospheric Double Drum Dryer.
1—Buflovak Vacuum Drum, 24" x 20".
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1—Eppenbach Colloid Mill, stainless steel, ½ HP.
1—Hardinge 6' x 22" Conical Steel-Lined Ball Mill, with feeder and 10' Gayco Air Separator.
1—Hardinge 36" x 24" Conical Steel-Lined Ball Mill.
1—Gruendler Master Hammer Mill, 10 HP motor.
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1—Devine No. 3 Vac. Shelf Dryer.
2—Sperry 18" sq. Lead Filter Presses.
12—Sperry & Shriver, 30", 32" & 42" sq. Iron Filter Presses.
8—Baker Perkins heavy duty Jack. Mixers, 100, 50, 20 & 9 gals.
1—Devine No. 3 late type Vac. Shelf Dryer Elec. Heated.
9—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge. Also 26" Rubber-Lined.
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2—Manton Gaulin Stainless Steel Homogenizers, type 200 & 300.
Devine 800 & 1,000 gal. closed steel Kettles & Stills.
1—Buffalo 200 gal. Autoclave 1500 PSI.
1—250 gal. lead-lined Kettle.
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2—Continuous Conical Dry Blenders, ½ to 1½ tons per batch, 7½ HP.
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1—Abbe Pebble Mill, 24"x36", 30 gals.
75—36" x 36" Cast Iron Filter Press Plates and Frames.
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1—Dings Magnetic Separator, 12" Magnetic Pulley.
1—Sturtevant 36" Rock Emery Mill.
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18—Copper jack. Kettles, 2, 20, 50, 75, 100, 250 & 350 gals., some agitated.
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1—Abbe 2 Jar Mill, 2 gal. Jars.
1—Williams No. 3 "Regular" type Hammer Mill.
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1—Jeffrey 18" x 48" Single Deck Conveyor Screen.
New 40 gal. Pony Mixers.
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8—Centrifugals, 20", 26", 30", 40".
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1—Dopp 50 gal. jacketed Kettle.
1—Blystone 2,500 lb. horiz. Spiral & Paddles Steel Mixer.
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10—Iron Mills, 12", 14" & 18".
8—Stone Mills, 8" to 32".
6—Lead & Paste Mixers to 300 gals.
3—Varnish Kettles, 200 gals.
25—Rotary, Centr. & Triplex Pumps.
6—Gas Boilers, up to 10 H.P.
Soap Machinery for Toilet, Laundry, Chip, Liquid, etc.

Write for Complete Bulletins
We Buy Your Surplus Machinery

STEIN EQUIPMENT COMPANY
80 WEST ST., NEW YORK 6, N. Y.
WOrth 2-6748

Sun Oil Co. Names Three at Marcus Hook

Sun Oil Company, Philadelphia, has named Norman Thompson assistant superintendent in charge of refinery laboratories at its Marcus Hook, Pa., refinery; has appointed George S. Rostron special assistant to Mr. Thompson, and has named Charles C. Kline operating engineer of a new wax manufacturing plant and a new furfural solvent extraction plant.

Mr. Thompson joined the company in 1924 as a refinery laboratory oil tester, was made a laboratory assistant in the development division in 1927 and was appointed associate development engineer in 1937. Mr. Rostron started with Sun Oil in 1930 after having been employed by the Aberfoyle Manufacturing Company, the American Dyewood Company and the Wilbur Suchard Chocolate Company. Mr. Kline joined the organization at Marcus Hook in 1937, immediately following his graduation from Drexel Institute.

EQUIPMENT FOR CHEMICAL AND ALLIED INDUSTRIES

3—No. 8½ "B" Abbe Pebble Mills, Buhrstone-lined.

1—Abbe No. 8 Porcelain-lined Pebble Mill, 18" x 18".
1—No. 2 Ball & Jewel Cutter.
4—Louisville Rotary Steam Tube Dryers, Size 6' x 50'.
1—Bartlett & Snow, Steam Dryer, 72".
3—Baker Perkins Laboratory Mixer, Size 6, Stainless Steel.
2—42" Shriver Filter Presses, Cast Iron, 64 Chambers.
5—Shriver Cast Iron Filter Presses, 7".
2—Pfaudler Stainless Steel Tanks, 13,500 gallons.

R. GELB & SONS, INC.
UNION, N. J.
Est. 1886 UNionville 2-4900

PROCESS EQUIPMENT FOR SALE

1—No. 12 Sweetland Filter Press, 56 leaves, 4" centers.
1—No. 1 Raymond Pulverizer, cyclone, blower & motors.
1—No. 1 Gruendler Pulverizer and motors.
1—5' Gayco Double Whizzer Separator and motor.
1—Model 100 Sprout Waldron "V" Style Mixer.
2—24" x 24" Sperry Plate & Frame open delivery filter presses.
1—6' dia. x 6' long Thropp Silex-lined Pebble Mill.
1—6' dia. x 5' long Porcelain-lined Pebble Mill.
1—Cascade Minus 120 degree Deep Freeze Unit complete.
1—Cummer 4' x 16' Rotary Dryer, with bucket elevator, hopper, speed reducer and motor.
1—Pony Labelrite table model motor driven gummer with motor.
2—Brown Electric Pyrometers (1,200° to 2,600°F.).
5—24" x 48" Single ribbon & paddle Mixers, with motors.
2—4½" x 2¾" x 4" Duplex Steam Pumps.

Write for Partial Stock Sheet "E"

EMSCO EQUIPMENT COMPANY
EMIL A. SCHROTH, Owner
41 HYATT AVE., NEWARK 5, N. J.
Phone: Mitchell 2-3536

UNION Rebuilt Machinery Established 1912

Special Offerings for Immediate Delivery!

W. & P., Day Cincinnatus and Imperial Type Mixers; Hottmar Paragon, Read, Single and Double Arm from 2 gallons to 300 gallons.
Elgin 24 spout Rotary Vacuum Filling Machine.
Gayco 8 ft. Air Separator.
Schutz O'Neill, Jay Bee, Williams, Gruendler, etc., Pulverizers.
J. H. Day and Kent, Three Roll, 12" x 30", 16" x 40" Mills, motor driven with motor.
Mullers or Chasers 2 ft. to 6 ft. sizes.
Ermold and World Semi-Automatic Labelling Machines.
U. S. Bottlers C-10 and A-6 Acme Fillers.
Copper Steam Jacketed Kettles with and without Agitators.
Read, and Century Vertical Mixers, M.D.
Johnson and Oliver Sweetland Filter Presses.
Copper Stills and Vacuum Pans.
Hubu Rotary Continuous Dryers.
Schutz O'Neill Rotex, and Allis-Chalmers Lowhead Sifters.
Package Machinery Co., Johnson, Miller, all types of Wrapping, Packaging and Cartoning Equipment. (Please submit Samples of your item with Your Inquiry.)

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Union Standard Equipment Co.
318-322 Lafayette Street
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CHEMICAL & PROCESS MACHINERY CORPORATION

OFFERS

'S' Factor AS ASSURANCE OF SAVINGS AND SERVICE

1—Hardinge 4' x 11'6" granite lined mill with 40 HP motor.
2—Premier colloid mills, S.S., 5 HP and 20 HP.
1—Shriver 24" all lead filter press, closed del.
1—250 gallon stainless steel atmospheric still.
1—Lummis condenser, 500 sq. ft., Adm. tubes.
19—New S.S. Alsop sealed disc filters, 10-20-30 disc.
3—Recolvators, 6' to 25' lift.
8—Rotex sifters, 20" x 64" and 40" x 84".
2—Porter 40 gallon pony mixers.
1—30" x 24' S.S. column.
6—Single and double arm dough mixers, from 50 to 250 gallon.
10—Robinson, Day powder mixers, from 50 lb. to 2,000 lb.
1—World automatic straightaway labeler, front and back, excellent condition.

WE WILL BUY YOUR SURPLUS EQUIPMENT

CALL WORTH 4-8130
OR WRITE
146 GRAND ST., NEW YORK 13, N. Y.
Cable Address: KEMPROCESS, N. Y.

FOR SALE

Stainless Steel Tanks, new, 100 and 200 gal., dished bottoms with stands.
20—Steam Jacketed Kettles, stainless steel and aluminum, 30 to 250 gals. capacity.
1—Dopp 125 gal. Steam Jacketed Kettle with agitator.
1—Stedman 40" Cage Disintegrator.
Stainless Steel Vert. Tank, 7' dia. x 10', No. 430 Chrome.
1—Buflovak Impregnating Tank, 42" x 52", steam jacketed.
2—New Ribbon Type Mixers, 8 & 24 cu. ft.
2—Flow-Master Rom-bi-nators.
4—Steel Tanks, 100,000 gal. each.
4—Steel Tanks, 67,500 gal. each.
3—New Worthington Steam Pumps, 6x4x6.
1—DeLaval Lab. Separator with ½ H.P. motor.
1—18-Spout Karl Kiefer Rotary Filler.
6—Stokes Rotary Tablet Machines, Model RD-4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.

SPECIAL
1—Olivite Pump 175 gpm at 35' direct connected to 5 HP Louis-Allis Motor
14 gallon double arm steam jacketed mixture.

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ALL OTHER CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less; 85c for each additional six words or fraction.

AGENCIES OFFERED

Distributors or sales agents for new patented family of wetting and detergent compounds, that have excellent foaming and emulsifying properties. Foreign and domestic territories open. OPD 375.

Agent wanted—An old established New York firm of importers wishes an agent in Chicago district. Must be experienced in and acquainted with the cosmetic, chemical and kindred trades. Write for fuller information to OPD 402.

AGENCIES WANTED

Mexico. Established firm, qualified management, wishes to take over distribution and representation of first class chemical and pharmaceutical manufacturing concerns. Facilities for full or part manufacture of pharmaceutical, also cosmetic products. OPD 389.

Chemical manufacturers wishing to increase or initiate export sales please contact established firm, specialists qualified to handle your sales promotion and distribution in overseas markets. Joseph Plasencia, Inc., Chemical Division, 401 Broadway, New York 13.

BUSINESS WANTED

Chemical Company wishes to purchase going chemical manufacturing company. All replies held in strict confidence. OPD 409.

EQUIPMENT OFFERED

Filter press, 24 in. aluminum-silicon alloy, 4-eyed closed delivery, washing. 18 plates and frames. Slightly used. Excellent condition. OPD 413.

2—Mikro pulverizers, No. 1SH; Day powder mixer with motor, 20 cu. ft. capacity; Pangborn dust collector, type CK; 18 and 24 in. Shriver, C.I. closed delivery, filter presses. Lawler Company, Metuchen, N. J.

FACILITIES OFFERED

Tablet business invited—coated and uncoated, U.S.P., N.F., and private formula. Under registered pharmaceutical and recognized analytical, chemical supervisory control. Attractive in-bulk quotations. With inquiry submit sample tablets desired. American Chemical and Specialty Company, Offices—807 Madison Avenue, Baltimore 1, Maryland.

MATERIALS OFFERED

Cholesterol U.S.P. for immediate delivery at lowest prices by manufacturer. OPD 387.

For sale: Surplus chemicals, 1 carboy (40 lbs.) hydrazine hydrate 85%, Mfg., Edwal Laboratories; 2 cans (50 lbs.) each anethole tech., Mfg., S. B. Penick & Co.; 2 bbls. (150 lbs.) each acid phthalic anhydride C.P., Mfg., J. T. Baker, original containers, quality guaranteed. Price: 25% less current market. Write OPD 397.

Vinsol resin, 38,000 pounds, available for prompt shipment at 75% of present market price. Solar Battery Corporation, Warren, Pennsylvania.

100 gross 60 oz. Blake amber, 4 drums sodium arsenite solution, 1 drum each butyl carbitol, cellosolve, triethanolamine, methyl carbitol and tergitol No. 4. Also fifty empty drums. Call Mr. Johnston, Nott Mfg. Co., Mt. Vernon 7-0417.

Attention chemical jobbers, dealers and consumers—fine organics and pharmaceuticals—Inform us of your needs. Perhaps we can supply you. Contract work solicited. Vivos Products, 135 South 60th Street, Philadelphia 39, Pa.

Offer carload (72,000 lbs.) of lithopone 30% in manufacturer's original 50 lb. bags. Dorit Trading Co., 154 Nassau Street, New York 7, New York. Telegrams: TRADORIT NEW YORK; Telephone WOrth 4-4520.

Indigo 20% paste: Original National Aniline drums, prompt delivery. U. S. Industrial Products Co., 44 Whitehall Street, New York 4, N. Y. Phone WH 4-7254, Cables USINPROD.

Artic Syntex M beads manufactured by Colgate, Palmolive Peet Co. Substantial quantity available at very favorable price. Quality of material guaranteed. OPD 412.

Genuine Spanish saffron, in one-pound original containers. Apply OPD 416.

For sale—Surplus stock; Appr. 100,000 Gelcaps black size C-7 manuf. by Parke Davis; appr. 50 lb. 5 fold lime oil (West India); please write or call the One Two Three Co., Inc., 150 Varick Street, New York 13, N. Y. WOrth 4-6667.

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Wanted: Caustic Soda, Soda Ash, Aminopyrene, Antipyrene, Formic Acid, Sodium Sulphide, Titanium Dioxide, Direct Black, Vat Jade Green, and many other chemicals and dyestuffs. Top market prices paid. We also purchase surplus and odd lots. OPD 339.

Need Titanium pigments desperately in order to carry on business. Any reasonable bonus paid or will exchange for other pigments or chemicals plus consideration. All transactions held in strictest confidence. Samuel Smidt Chemical Co., 410 Frelinghuysen Ave., Newark, N. J.

Phenol—Wanted by a new resin manufacturer. One or two tank cars per month. Willing to guarantee purchases above as a minimum quantity for a period of 3 to 5 years, if deliveries can start during second or third quarter of 1948. OPD 411.

MATERIALS WANTED

Do not wait until conditions further limit prospects of disposing of top-heavy inventories. Will purchase surplus unshipped commodities, all kinds. Particularly interested in pigments, chemicals, dyes, colors, waxes, drugs, pharmaceuticals, etc. OPD 417.

PHOSPHATE LEASE

U. S. Department of the Interior, Bureau of Land Management, Washington, D. C. Notice is hereby given that sealed bids will be received until 1 P.M. Eastern Standard Time, March 17, 1948, for the following described lands situated in Granite County, Montana; unsurveyed land, described as follows: "Beginning at the NE corner of sec. 12, T. 7 N., R. 14 W., P.M., Montana; thence north ½ mile, east 2 miles, south ½ mile, east ¼ mile, south ¾ mile, west ¼ mile, south ¼ mile, west 1½ miles, south ¼ mile, west ¼ mile, south ¼ mile, west ¼ mile, north 1½ miles to point of beginning, which will probably be, when surveyed, the S½ sec. 5, S½ sec. 6, all of sec. 7, all of sec. 8, W½NW¼, NW¼SW¼ sec. 9, N½NW¼, SW¼NW¼ sec. 18, T. 7 N., R. 13 W., and surveyed the E½E½, SW¼NE¼, W½SE¼ sec. 12, E½NE¼ sec. 13, T. 7 N., R. 14 W., P.M., 2,480 acres. This land is offered at a minimum bid of $1 an acre to qualified bidders of the highest cash amounts per acre as a bonus for the privilege of leasing under the phosphate provisions of the Act of February 25, 1920 (41 Stat. 440; 30 U.S.C. 211, et seq), subject to the following conditions: (1) A royalty of 5 percent of the gross value on all run-of-mine, crushed, pulverized, or beneficiated phosphate rock sold or used by the lessee for the manufacture of phosphate and on all associated mineral products produced from the leased land, f.o.b. the point of shipment. Such royalty shall not be less than 15 cents a ton of 2,000 pounds, mine run, for phosphate rock analyzing on a B.P.L. basis 55 percent or less, plus 1 cent a ton for each percent contained B.P.L. above 55 percent, averaged for the royalty period. It is expressly agreed that the Secretary of the Interior may establish reasonable minimum values for the purpose of computing royalty on any phosphate rock and associated mineral products, due consideration being given to the highest price paid for a part or a majority of the production of like quality products from the same general area, the price received by the lessee, posted prices, and other relevant matters. (2) A minimum investment of $100,000, during the first three years of the lease. (3) A minimum production to a royalty value of $1 an acre a year, beginning with the fourth year of the lease, and otherwise substantially in accordance with the lease form set out in the regulations (43 CFR 196.14), as amended. The unsurveyed land must be surveyed at the expense of the successful bidder prior to the issuance of a lease. The bids must be submitted to the Director, Bureau of Land Management, Washington 25, D. C., and each bidder must submit with the bid one-fifth of the amount bid in cash or by certified check on a solvent bank, or by money order, made payable to the order of the Treasurer of the United States, and file the showing of qualifications to receive a lease, required under 43 CFR 196.6 (a), and (b) and (c), as amended. The envelope shall be plainly marked, "Bid for phosphate lease. Not to be opened before 1 P.M., Eastern Standard Time, March 17, 1948." No bids received after the hour fixed herein for receiving bids will be considered. The remainder of the bonus and the annual rental at the rate of 25 cents per acre must be paid and a corporate surety bond in the sum of $5,000 must be furnished by the successful bidder prior to the issuance of a lease (43 CFR 196.12). The deposits of the unsuccessful bidders will be returned upon acceptance of the successful bid. Bidders are warned against violation of section 59, U. S. Criminal Code, approved March 4, 1909, prohibiting unlawful combination or intimidation of bidders. The right is reserved to reject any and all bids. Fred W. Johnson, Director.

PLANTS OFFERED

For sale—Building located downtown Burlington, Iowa, adjacent retail district; four floors, full dry basement, 35,000 sq. ft. Heavy construction suitable for light or heavy manufacturing, wholesaling or retailing. Railroad siding; three unloading doors; first floor, truck height; six truck docks. New heating system throughout; new roof; entire building in excellent condition; new 6,000 lb. elevator. Burlington is a town of 40 000; located on the Mississippi River; three hours from Chicago by Burlington Zephyr; centrally located between Chicago, Minneapolis, Omaha, Kansas City, St. Louis; served by two railroads and Braniff Air Lines; finest truck, rail, water and air service available. For sale by owner. Inquire Post Office, Box 560, Burlington, Iowa.

PATENTS WANTED

Inventions — Patents — new ideas. Reputable, good-sized paint and varnish manufacturer—also making alkyd resins in modern equipment—having sufficient capital and technical and physical ability, is ready to finance and produce any new idea. Will purchase outright or negotiate on a profit-sharing basis. Address OPD 415.

POSITIONS VACANT

Plant chemist wanted: thoroughly experienced in impregnation and coating fabrics with pyroxylin and resins, capable of handling production problems. Plant located in New England. State age, background, salary and references. OPD 354.

Wholesale chemical merchants and manufacturers of industrial chemicals, well established with large scope for expansion and covering South Africa, require experienced and well qualified industrial chemist with business ability and with £2,000 or more capital available. Apply with copies of testimonials, state age and salary required to "Chemist" Box 2335, Durban, South Africa.

Lacquer formulative chemist: Degree desirable but not necessary. Salary $300 to $350 per month. Apply Interchemical Corp., Finishes Div., 57 State St., Newark, N. J.

Salesman, lacquers, liberal drawing against commissions, bonus arrangement, permanent use of company car if required. OPD 405.

Export executive—Good opportunity with leading ethical pharmaceutical manufacturer for mature capable man. Requires business administration training or experience, knowledge of pharmacy or medicine. Language background in Spanish or French helpful. Export experience essential Must be good correspondent. Salary open. OPD 414.

POSITIONS WANTED

Chemist, B.S., graduate credits, 5 years experience including 3 years research and development in textile inks, paints, lacquers, emulsion coatings. Familiar resins and raw materials. Presently employed, seeks opportunity for advancement to production or technical sales. OPD 404.

Buyer available, chemical and allied fields. Well known drug manufacturer is looking for position for former employee thoroughly experienced in all phases of purchasing procedure and procurement in domestic and export markets. OPD 410.

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3—De Laval centrifugal oil purifiers, No. 600.
1—Sharples Pressuretite centrifuge, No. 6.
1—American 20" copper perforated basket centrifugal.

6—Pneumatic Scale Auto. Inverted Bottle Air Cleaners.

COLUMNS

1—Copper 8" dia. x 4'7" high, 12" x 15" boiling chambers having 6 plates, 1—4" dia. bubble cap per plate. Includes tubular condenser.
1—Steel column 8'—10' dia. x 69' high, 19 plate 8'1" dia., containing 67—6" I.D. cast iron bubble caps; 9 plates 10' dia. having 91—6" I.D cast iron bubble caps.

CONDENSERS

1—Steel shell 24" dia. x 9' long copper tubes, approx. 342 sq. ft. heating surface.
11—Copper tubular condensers, 48, 100, 127, 185, 200, 280 & 1,150 sq. ft.

COOLERS

1—Double Pipe 8 pipes high, 8' long stainless steel inside pipe, copper outside pipe.
1—Double pipe 10 pipes high, 18' long.
1—Double pipe 10 pipes high, 13' long.

15—Stainless Steel Clad Steam Jacketed Open Top KETTLES, 20, 30, 40, 60 & 80 gals. cap.

FILTERS

2—Shriver 30" x 30" wood plates and frames.
1—Sperry 30" x 30" bronze plates and frame press.
1—C.I. 30" x 30" recessed plate press, 35 plates.
2—Oliver Sweetland No. 5 filter, 20 bronze leaves, 3" centers. NEW.

1—Oliver Rotary, 8' x 8', Rubber-Lined.

MIXERS

3—Continuous Struthers-Wells 6' dia. x 20' long.
1—Simpson No. 3½ mixer, 9'3" x 48". With crib water jacket.
2—Readco heavy duty, double sigma blades, jacketed & tilting, 150 gal. working capacity. One mixer of stainless construction.
1—Readco heavy duty, jacketed & tilting type, 5 bbl., with double arm & kneader bars.
3—Day, double ribbon spiral powder mixers, 50, 600 & 2,000 lbs. cap.
10—Gemco powder blenders, copper construction, conical shape, 25, 50, 300 & 500 lbs.

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Still: 100 gal., Copper, steam jack.
Tube Filler: Colton No. 2, worm type.
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Centrifugal: 30" Rochester, suspended.
Mixer: 5,000 lb. Day, dry powder, with sifter and 20 hp. motor.
Filters: Oliver 8 x 10', 8 x 12', 6 x 4'.
DRYERS: Vacuum Shelf, Buflovak and Stokes.
Vacuum Pans: 3' to 11' dia.
Kettles: 60 and 100 gal. stain. steel.
Fillers: Siphon type bottle and can.
Pony Mixers: Day and Porter, 40 gal.
Labeler: World rotary automatic.
4—Mixers: Hobart 80 qt., 3-speed.
Hammer Mills: No. 30 Prater, 15 x 8" Jeffrey.
Filler: Triangle SPA volumetric.

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1 - 500 or 750 gallon acid proof glass lined closed kettle, with agitator and jacket for 100 lbs. pressure. Write Box 408, Oil Paint & Drug Reporter.

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1—Steel Autoclave, 500 gal., Jack. & Ag.
1—ATM 40" Suspended Centrifuge Bronze Basket.
1—Ruggles Coles Rotary Dryer, 8'-8" x 75'.
1—Single Effect Callandria type Copper Evaporator, 350 sq. ft.
1—Kopperman 6' Copper Vacuum Pan.
1—Swenson 8' x 8' Rotary Vacuum Filter.
1—ATM 12" Stainless Steel Extractor.
2—Read Double Arm 150 gal. Jacketed Mixers.
4—Baker Perkins D.A. 100 gal. Jacketed Mixers.
1—Kent 6" x 14" High Speed 3-Roll Mill.

Several hundred feet of 16" Screw Conveyor and 14" to 36" Roller Bearing Gravity Conveyor. Write for Bulletin A-19 for complete listings. We BUY YOUR Surplus.

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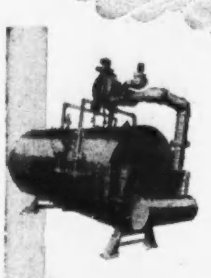
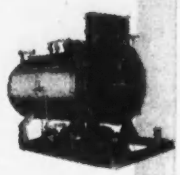
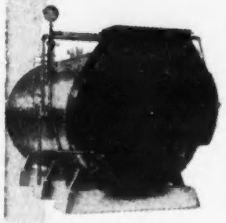
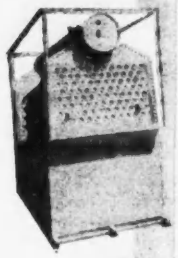

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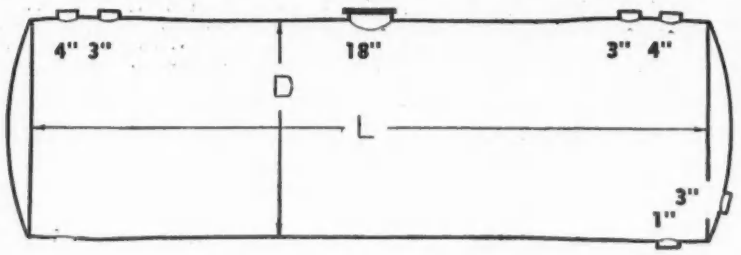

Quan.	Cap. Gals.	Diameter	Length	Thickness Shell	Thickness Heads
10	12,000	8'-0"	32'-0"	3/8"	3/8"
5	12,000	8'-0"	32'-0"	5/16"	5/16"
10	15,000	10'-6"	23'-8"	3/8"	3/8"
10	20,000	10'-6"	31'-0"	3/8"	3/8"
5	20,000	10'-6"	31'-0"	5/16"	5/16"

Heat and Power Co., inc.

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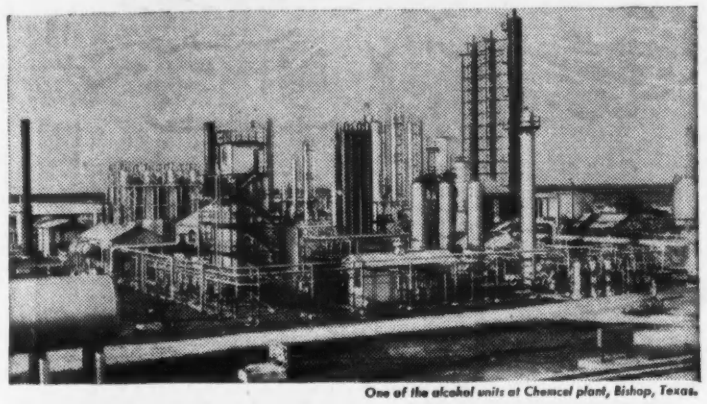

One of the alcohol units at Chemcel plant, Bishop, Texas.

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